



**THE UNITED REPUBLIC OF TANZANIA
MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA**



CERTIFICATE OF SECONDARY EDUCATION EXAMINATION FORMATS

**ISSUED BY:
THE NATIONAL EXAMINATIONS COUNCIL OF TANZANIA,
P. O. BOX 2624,
DAR ES SALAAM,
TANZANIA.**

OCTOBER, 2022



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FOREWORD

This examination formats booklet is a revised version of the Certificate of Secondary Education Examination Formats issued in 2019 by the National Examinations Council of Tanzania (NECTA). The booklet provides formats of all the subjects that will be assessed in the Form Four National Examination with effect from 2023. The subject formats have been prepared based on the syllabus approved by the Ministry of Education, Science and Technology. Significantly, the revised version responds to changes in syllabuses made in 2019 in a few secondary school optional subjects, which are: Agriculture, Engineering Science, Food and Human Nutrition, Textiles and Garment Construction, Building Construction, Architectural Draughting, Civil Engineering Surveying, Wood and Painting Engineering, Electrical Engineering, Electronics and Communication Engineering, Electrical Draughting, Electronics Draughting, Manufacturing Engineering, Automotive Engineering and Engineering Drawing. The improvement also responds to the shift in assessment from content to competency-based assessment.

This booklet presents a format for each subject in five sub-sections, namely, Introduction, General Objectives, General Competencies, Content and Rubric. A Table of Specifications at the end of each format informs teachers on the percentage weight of a topic in the examination. These formats serve as resources not only for examination officers in preparing for the Certificate of Secondary Education Examinations but also for teachers in preparing school-based assessments. However, the use of these formats must not replace the subject syllabuses in guiding the teaching, learning and assessment processes.

The preparation of this document involved teachers teaching the respective subjects, examination officers and other stakeholders. Thus, I would like to extend my sincere gratitude to all the officers and individuals who participated in this endeavour for their invaluable inputs, commitment and dedication to preparing these examination formats.



Athumani S. Amasi
Ag. EXECUTIVE SECRETARY

010 QUALIFYING TEST

(For Private Candidates Only)

1.0 INTRODUCTION

The Qualifying Test (QT) format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The Qualifying Test paper will be for Private Candidates who do not have the Form II secondary education qualifications and wish to be registered for the Certificate of Secondary Education Examination (CSEE). The format is based on the 2005 syllabi for Ordinary Secondary Education. The Qualifying Test will comprise questions from Civics, English Language, Kiswahili, History, Geography, Biology, Chemistry, Mathematics and Physics. The QT will assess topics from the Ordinary Secondary Education syllabus for Form I and II aimed to test for knowledge, competencies and skills equivalent to the Form Two National Assessment.

2.0 GENERAL OBJECTIVE

The main objective of the Qualifying Test is to determine whether the prospective candidates have attained the required secondary education qualification equivalent of the Form II level and, thus, can sit for the Certificate of Secondary Education Examination (CSEE).

3.0 GENERAL COMPETENCIES

The examination will specifically test the candidates' ability to:

- 3.1 interpret basic knowledge, facts, principles, concepts and figures in the stated subjects;
- 3.2 state, define, and name basic knowledge, facts, principles and concepts in relevant subjects;
- 3.3 write correct language using proper grammar, structure, and vocabulary in the subject tested;
- 3.4 write a summary, answer comprehension questions, and write a composition on a given passage, topic or subject;
- 3.5 demonstrate and interpret mathematical knowledge within a given context;
- 3.6 manipulate the set theory and application, and carry out simple

- differentiation and integration;
- 3.7 demonstrate the use of knowledge and skills in Physics, Chemistry and Biology to solve problems, which may involve unfamiliar situations; and
- 3.8 apply knowledge, concepts, laws, theories and principles of the Physics, Chemistry and Biology subjects in their daily lives.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for **three (3)** hours. The paper will consist of **24** questions in sections A and B. Candidates will be required to answer **all** the questions in parts I and II of Section A and **confine** themselves to only **one** part of the three parts in section B. Candidates will be required to answer **16** questions which will weigh **100** marks.

Section A will comprise **two** parts. Part I will be on Civics and will consist of **four (4)** questions. Part II will be on languages and will consist of **eight (8)** questions **four (4)** of which will assess the English Language and **four (4)** questions the Kiswahili Language. This section will comprise 12 questions. Candidates will be required to answer all the **twelve (12)** questions. Each question will weigh five **(5)** marks. Thus, this section will weigh **60** marks.

Section B will consist of **three** parts. Each part will comprise four questions. Candidates will be required to **confine** themselves to **one** part. Part I will have **four (4)** questions, **two (2)** of which will assess Geography and **two (2)** History. Part II will comprise **four (4)** questions, **two (2)** of which will assess Physics and **two (2)** Mathematics. Finally, Part III will comprise **four (4)** questions, **two (2)** of which will be on Biology and **two (2)** on Chemistry. Each question in this section will carry **10** marks. Thus, this section will weigh **40** marks.

5.0 EXAMINATION CONTENT

The candidates will be assessed on the following topics in each respective subject:

5.1 Civics

- 5.1.1 Promotion of life skills and family life
- 5.1.2 Human rights and responsible citizenship
- 5.1.3 Government of Tanzania and democracy
- 5.1.4 Proper behaviour and responsible decision-making
- 5.1.5 Our nation
- 5.1.6 Work
- 5.1.7 Road safety education
- 5.1.8 Gender

5.2 Kiswahili

- 5.2.1 Ufahamu na ufupisho
- 5.2.2 Sarufi na utunzi wa lugha
- 5.2.3 Fasihi
- 5.2.4 Utungaji

5.3 English Language

- 5.3.1 Comprehension and summary
- 5.3.2 Structure
- 5.3.3 Tenses
- 5.3.4 Composition
- 5.3.5 Response to readings.

5.4 Geography

- 5.4.1 Concepts of Geography
- 5.4.2 Major features of the Earth's surface
- 5.4.3 The solar system
- 5.4.4 Weather and climate
- 5.4.5 Map work
- 5.4.6 Human activities
- 5.4.7 Agriculture

- 5.4.8 Water management for economic development
- 5.4.9 Sustainable use of forest resources
- 5.4.10 Sustainable mining
- 5.4.11 Tourism industry
- 5.4.12 Manufacturing industry
- 5.4.13 Sustainable use of power and energy resources
- 5.4.14 Transport

5.5 History

- 5.5.1 Sources and importance of History
- 5.5.2 Evolution of man, technology and the environment
- 5.5.3 Development of economic activities and their impact
- 5.5.4 Development of social and political systems
- 5.5.5 Interactions among the people of Africa
- 5.5.6 Socio-economic development and production in pre-colonial Africa
- 5.5.7 Africa and the external world
- 5.5.8 Industrial capitalism

5.6 Chemistry

- 5.6.1 Introduction to Chemistry
- 5.6.2 Laboratory techniques and safety
- 5.6.3 Heat sources and flames
- 5.6.4 Scientific procedures
- 5.6.5 Matter
- 5.6.6 Air, combustion, rusting and fire fighting
- 5.6.7 Oxygen
- 5.6.8 Hydrogen
- 5.6.9 Water
- 5.6.10 Fuels and energy
- 5.6.11 Atomic structure
- 5.6.12 Periodic classification
- 5.6.13 Formula, bonding and nomenclature

5.7 Biology

- 5.7.1 Introduction to Biology
- 5.7.2 Safety in our environment
- 5.7.3 Health and immunity
- 5.7.4 Cell structure and organisation
- 5.7.5 Classification of living things
- 5.7.6 Nutrition
- 5.7.7 Balance of nature
- 5.7.8 Transport of materials in living things
- 5.7.9 Gaseous exchange and respiration

5.8 Physics

- 5.8.1 Introduction to Physics
- 5.8.2 Introduction to laboratory practice
- 5.8.3 Measurement
- 5.8.4 Force
- 5.8.5 Archimedes' Principle and the Law of Floatation
- 5.8.6 Structure and properties of matter
- 5.8.7 Pressure
- 5.8.8 Work, Energy and Power
- 5.8.9 Light
- 5.8.10 Static electricity
- 5.8.11 Current electricity
- 5.8.12 Magnetism
- 5.8.13 Forces in equilibrium
- 5.8.14 Simple machines
- 5.8.15 Motion in a straight line
- 5.8.16 Newton's Laws of Motion
- 5.8.17 Temperature
- 5.8.18 Sustainable sources of energy

5.9 Basic Mathematics

- 5.9.1 Numbers, fractions, decimals and percentages
- 5.9.2 Units, approximation and geometry
- 5.9.3 Ratio, profit and loss
- 5.9.4 Co-ordinates geometry, perimeters and areas

- 5.9.5 Algebra
- 5.9.6 Quadratic equations
- 5.9.7 Radicals, exponents and logarithms
- 5.9.8 Congruence and similarity
- 5.9.9 Geometrical transformations
- 5.9.10 Pythagoras theorem and trigonometry
- 5.9.11 Sets
- 5.9.12 Statistics

6.0 TABLE OF SPECIFICATIONS

Three alternative Tables of Specifications (1, 2 and 3) are provided to candidates, who will take the examination for Civics, Kiswahili and English Language subjects in Section A and choose options in section B that are either in Part I, II or III, which will respectively assess History and Geography; Physics and Mathematics; and Biology and Chemistry.

Alternative 1: Table of Specifications for Civics, Kiswahili, English Language, History and Geography

| S/N | Topics | | Skills to be Tested | | | | | Number of Items per Topic | Percentage Weight per Topic |
|-----|------------------|--------------------------------------------------|---------------------|---------------|----------|-----------|------------|---------------------------|-----------------------------|
| | | | Remembering | Understanding | Applying | Analysing | Evaluating | | |
| 1. | Civics | Promotion of life skills and family life | | | | | | 2 | 3.08 |
| | | Human rights and responsible citizenship | | | | | | 2 | 3.08 |
| | | Government of Tanzania and democracy | | | | | | 4 | 6.15 |
| | | Proper behaviour and responsible decision-making | | | | | | 1 | 1.54 |
| | | Our Nation | | | | | | 1 | 1.54 |
| | | Road safety education | | | | | | 1 | 1.54 |
| | | Gender | | | | | | 1 | 1.54 |
| 2. | Kiswahili | Sarufi na utumizi wa lugha | | | | | | 3 | 4.62 |
| | | Fasihi | | | | | | 4 | 6.15 |
| | | Uandishi | | | | | | 3 | 4.62 |
| | | Ufahamu | | | | | | 2 | 3.08 |
| 3. | English Language | Comprehension and summary | | | | | | 2 | 3.08 |
| | | Structure | | | | | | 3 | 4.62 |
| | | Tenses | | | | | | 2 | 3.08 |
| | | Composition | | | | | | 5 | 7.69 |
| 4. | History | Sources and importance of History | | | | | | 1 | 1.54 |
| | | Evolution of Man, Technology and Environment | | | | | | 1 | 1.54 |

| S/N | Topics | | Skills to be Tested | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|---------------------------|-----------------------------|
| | | | Remembering | Understanding | Applying | Analysing | Evaluating | | |
| | | Interactions among the People of Africa, | | | | | | 3 | 4.62 |
| | | Development of social and political systems/Development of economic activities and their impact/Socio-economic development and production in pre-colonial Africa/Africa and the external world | | | | | | 2 | 3.08 |
| | | Industrial Capitalism | | | | | | 1 | 1.54 |
| 5. | Geography | Concept of Geography and The Solar system | | | | | | 4 | 6.15 |
| | | Major features of the Earth | | | | | | 2 | 3.08 |
| | | Weather and climate | | | | | | 2 | 3.08 |
| | | Map work | | | | | | 2 | 3.08 |
| | | Human activities and Agriculture | | | | | | 1 | 1.54 |
| | | Water management for economic development | | | | | | 2 | 3.08 |
| | | Sustainable use of forest resources | | | | | | 1 | 1.54 |
| | | Sustainable mining | | | | | | 1 | 1.54 |
| | | Tourism industry | | | | | | 1 | 1.54 |
| | | Manufacturing industry | | | | | | 2 | 3.08 |
| | | Sustainable use of power and energy resources | | | | | | 2 | 3.08 |
| | | Transport | | | | | | 1 | 1.54 |
| Total Number of Items | | | | | | | | 66 | |
| Total Percentage Weight | | | | | | | | | 100 |

Alternative 2: Table of Specifications for Civics, Kiswahili, English Language, Physics and Mathematics

| S/N | Topics | | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|-----|------------------|--------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Civics | Promotion of life skills and family life | | | | | | | 2 | 2.99 |
| | | Human rights and responsible citizenship | | | | | | | 2 | 2.99 |
| | | Government of Tanzania and Democracy | | | | | | | 4 | 5.97 |
| | | Proper behaviour and responsible decision-making | | | | | | | 1 | 1.49 |
| | | Our Nation | | | | | | | 1 | 1.49 |
| | | Road safety education | | | | | | | 1 | 1.49 |
| | | Gender | | | | | | | 1 | 1.49 |
| 2. | Kiswahili | Sarufi na utumizi wa lugha | | | | | | | 3 | 4.48 |
| | | Fasihi | | | | | | | 4 | 5.97 |
| | | Uandishi | | | | | | | 3 | 4.48 |
| | | Ufahamu | | | | | | | 2 | 2.99 |
| 3. | English Language | Comprehension and summary | | | | | | | 2 | 2.99 |
| | | Structure | | | | | | | 3 | 4.48 |
| | | Tenses | | | | | | | 2 | 2.99 |
| | | Composition | | | | | | | 5 | 7.46 |
| 4. | Physics | Measurement | | | | | | | 1 | 1.49 |
| | | Archimedes' principle and The law of | | | | | | | 1 | 1.49 |

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|-----|-------------|------------------------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| | | floatation | | | | | | | |
| | | Structure and properties of matter | | | | | | 1 | 1.49 |
| | | Force and pressure | | | | | | 2 | 2.99 |
| | | Work, energy and power | | | | | | 1 | 1.49 |
| | | Light | | | | | | 1 | 1.49 |
| | | Static electricity | | | | | | 1 | 1.49 |
| | | Current electricity | | | | | | 1 | 1.49 |
| | | Magnetism | | | | | | 1 | 1.49 |
| | | Forces in equilibrium | | | | | | 1 | 1.49 |
| | | Simple machines | | | | | | 2 | 2.99 |
| | | Motion in a straight line | | | | | | 1 | 1.49 |
| | | Newton's Laws of Motion | | | | | | 1 | 1.49 |
| | | Sustainable energy sources | | | | | | 1 | 1.49 |
| 5. | Mathematics | Numbers and approximations | | | | | | 2 | 2.99 |
| | | Fractions | | | | | | 1 | 1.49 |
| | | Decimals and percentages | | | | | | 1 | 1.49 |
| | | Units | | | | | | 1 | 1.49 |
| | | Geometry, perimeters and areas | | | | | | 1 | 1.49 |
| | | Algebra and quadratic equations | | | | | | 1 | 1.49 |
| | | Co-ordinate geometry | | | | | | 1 | 1.49 |
| | | Exponents and radicals | | | | | | 1 | 1.49 |

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| | Logarithms | | | | | | | 1 | 1.49 |
| | Congruence and similarity | | | | | | | 1 | 1.49 |
| | Geometrical transformations | | | | | | | 1 | 1.49 |
| | Pythagoras theorem and trigonometry | | | | | | | 1 | 1.49 |
| | Sets | | | | | | | 1 | 1.49 |
| | Statistics | | | | | | | 1 | 1.49 |
| Total Number of Items | | | | | | | | 66 | |
| Total Percentage Weight | | | | | | | | | 100 |

Alternative 3: Table of Specifications for Civics, Kiswahili, English Language, Biology and Chemistry

| S/N | Topics | | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|-----|------------------|--------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Civics | Promotion of life skills and family life | | | | | | | 2 | 2.90 |
| | | Human rights and responsible citizenship | | | | | | | 2 | 2.90 |
| | | Government of Tanzania and democracy | | | | | | | 4 | 5.80 |
| | | Proper behaviour and responsible decision-making | | | | | | | 1 | 1.45 |
| | | Our Nation | | | | | | | 1 | 1.45 |
| | | Road safety education | | | | | | | 1 | 1.45 |
| | | Gender | | | | | | | 1 | 1.45 |
| 2. | Kiswahili | Sarufi na utumizi wa lugha | | | | | | | 3 | 4.35 |
| | | Fasihi | | | | | | | 4 | 5.80 |
| | | Uandishi | | | | | | | 3 | 4.35 |
| | | Ufahamu | | | | | | | 2 | 2.90 |
| 3. | English Language | Comprehension and summary | | | | | | | 2 | 2.90 |
| | | Structure | | | | | | | 3 | 4.35 |
| | | Tenses | | | | | | | 2 | 2.90 |
| | | Composition | | | | | | | 5 | 7.25 |
| 4. | Biology | Introduction to Biology | | | | | | | 2 | 2.90 |
| | | Safety in our environment | | | | | | | 2 | 2.90 |
| | | Health immunity | | | | | | | 3 | 4.35 |
| | | Cell structure and organisation | | | | | | | 1 | 1.45 |
| | | Classification of living things | | | | | | | 2 | 2.90 |
| | | Nutrition | | | | | | | 3 | 4.35 |
| | | Balance of Nature | | | | | | | 1 | 1.45 |

| S/N | Topics | Skills to be Tested | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-----------|---------------------|---------------|----------|-----------|------------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | | |
| | | | | | | | 3 | 4.35 |
| | | | | | | | 1 | 1.45 |
| 5. | Chemistry | | | | | | 1 | 1.45 |
| | | | | | | | 1 | 1.45 |
| | | | | | | | 1 | 1.45 |
| | | | | | | | 1 | 1.45 |
| | | | | | | | 1 | 1.45 |
| | | | | | | | 1 | 1.45 |
| | | | | | | | 1 | 1.45 |
| | | | | | | | 1 | 1.45 |
| | | | | | | | 2 | 2.90 |
| | | | | | | | 2 | 2.90 |
| | | | | | | | 1 | 1.45 |
| | | | | | | | 2 | 2.90 |
| Total Number of Items | | | | | | | 66 | |
| Total Percentage Weight | | | | | | | | 100 |

011 CIVICS

(For Both School and Private Candidates)

1.0 INTRODUCTION

The Civics examination format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2005 Civics syllabus for Ordinary Secondary Education. The improvements made in this revised format include improving the examination rubric without changing the examination objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The Civics examination will assess the extent to which the candidates can:

- 2.1 analyse the components and symbols of our nation, its culture and proper management of resources;
- 2.2 explain and demonstrate various life skills;
- 2.3 express civic responsibility and active civic participation skills;
- 2.4 express various human personalities including those related to the ability to accept the challenges to working hard;
- 2.5 explain various democratic values and participate in their development;
- 2.6 describe the concept of government, its importance and organisation so as to prepare them in its establishment and running;
- 2.7 analyse information on current events, which shape the social, cultural, political, economic and technological development of the Tanzania society;
- 2.8 describe cross-cutting issues, their impact on Tanzania and intervention steps to be taken;
- 2.9 show skills related to road safety; and
- 2.10 demonstrate skills on matters related to family issues.

3.0 GENERAL COMPETENCIES

The examination will assess the candidates' ability to:

- 3.1 appreciate our nation, promote national cultural values and manage our natural resources;

- 3.2 apply life skills in their daily life;
- 3.3 express civic responsibility and active civic participation;
- 3.4 value work for themselves and national development;
- 3.5 account for democratic values;
- 3.6 analyse the government structure and participation in its functioning;
- 3.7 critically analyse information on social, political, economic, technological and cultural events related to the development of our nation and their impact on the society;
- 3.8 analyse cross-cutting issues in our society and apply intervention steps;
- 3.9 observe road safety regulations; and
- 3.10 analyse matters related to family issues and make the right decisions.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for **three (3)** hours. The paper will consist of **11** questions in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question consisting of **10** items. Each item will weigh **one (1)** mark, hence a total of **10** marks. Question number 2 will be a matching items question, consisting of **six (6)** items. Each item will carry **one (1)** mark, making a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** essay questions. Candidates will be required to answer **two (2)** questions. Each question will weigh **15** marks. Therefore, the section will weigh a total of **30** marks.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

- 5.1 Our nation
- 5.2 Promotion of life skills
- 5.3 Human rights
- 5.4 Responsible citizenship
- 5.5 Work
- 5.6 Family life
- 5.7 Proper behaviour and responsible decision-making
- 5.8 Road safety education
- 5.9 Government of Tanzania
- 5.10 Democracy
- 5.11 Gender
- 5.12 Economic and social development
- 5.13 Poverty
- 5.14 Culture
- 5.15 Globalisation

Table of Specifications for 011 Civics

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|--------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Our nation | | | | | | | 1 | 5.0 |
| 2. | Promotion of life skills | | | | | | | 2 | 10.0 |
| 3. | Human rights | | | | | | | 1 | 5.0 |
| 4. | Responsible citizenship | | | | | | | 1 | 5.0 |
| 5. | Work | | | | | | | 1 | 5.0 |
| 6. | Family life | | | | | | | 1 | 5.0 |
| 7. | Proper behaviour and responsible decision-making | | | | | | | 1 | 5.0 |
| 8. | Road safety education | | | | | | | 1 | 5.0 |
| 9. | Government of Tanzania | | | | | | | 2 | 10.0 |
| 10. | Democracy | | | | | | | 1 | 5.0 |
| 11. | Gender | | | | | | | 1 | 5.0 |
| 12. | Economic and social development | | | | | | | 1 | 5.0 |
| 13. | Poverty | | | | | | | 1 | 5.0 |
| 14. | Culture | | | | | | | 4 | 20.0 |
| 15. | Globalisation | | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

012 HISTORY

(For Both School and Private Candidates)

1.0 INTRODUCTION

The History examination format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The format is based on the History Syllabus for Ordinary Secondary Education of 2005. The improvements made in this revised format include changing the examination rubric while retaining the examination objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 explain how African societies were formed, how they developed and the factors that influenced their development;
- 2.2 demonstrate knowledge of historical events and factors that shaped the past and the present conditions of Africa in relation to the rest of the world;
- 2.3 analyse the problems African societies experienced in the past and explain how they solved them to master their socio-economic environment;
- 2.4 apply knowledge acquired in History in interpreting, analysing, and evaluating events taking place in the world generally and Africa particularly;
- 2.5 evaluate the efforts made and strategies the African people used to regain their independence and resist neo-colonialism; and
- 2.6 demonstrate basic skills of critical thinking, reasoning, judgment, empathy and effective participation in developmental activities.

3.0 GENERAL COMPETENCIES

The History examination will test the candidate's ability to:

- 3.1 assess the efforts made by pre-colonial African societies in

- mastering their environment and fostering their social, political and economic advancement;
- 3.2 evaluate the impact of foreign domination on African societies from the period of interaction with the external world to the colonisation of Africa;
 - 3.3 explain various efforts and strategies African nation-states made in the struggle against colonial subjugation;
 - 3.4 assess cultural, political, economic and technological changes African countries made after independence; and
 - 3.5 analyse the objectives, achievements and problems of the establishment of regional, continental and intercontinental co-operation.

4.0 EXAMINATION RUBRIC

There will be one (1) paper for a **three (3)** hours duration. The paper will consist of **11** questions in sections A, B and C. The candidates will be required to answer **all** the questions from sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question made up of **10** items. Each item will weigh **one (1)** mark, hence a total of **10** marks. Question number 2 will be a matching-items question, consisting of **six (6)** items. Each item will carry **one (1)** mark, hence a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** essay questions. Candidates will be required to answer **two (2)** questions. Each question will weigh **15** marks. Therefore, the section will weigh a total of **30** marks.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

- 5.1 Sources and importance of History
- 5.2 Evolution of man, technology and the environment
- 5.3 Development of economic activities and their impact
- 5.4 Development of social and political systems
- 5.5 Interactions among the people of Africa
- 5.6 Socio-economic development and production in pre-colonial Africa
- 5.7 Africa and the external world
- 5.8 Industrial capitalism
- 5.9 Establishment of colonialism
- 5.10 Colonial administrative systems
- 5.11 Colonial economy
- 5.12 Colonial social services
- 5.13 Crises in the capitalist system
- 5.14 Nationalism and decolonisation
- 5.15 Changes in political, social and economic policies in Africa after independence
- 5.16 Africa in international affairs

Table of Specifications for 012 History

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|-----------------------------------|---------------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Sources and importance of History | | | | | | | 1 | 5.0 |
| 2. | Evolution of man, technology, and the environment | | | | | | | 1 | 5.0 |
| 3. | Development of economic activities and their impact | | | | | | | 1 | 5.0 |
| 4. | Development of social and political systems | | | | | | | 1 | 5.0 |
| 5. | Interactions among the people of Africa | | | | | | | 1 | 5.0 |
| 6. | Socio-economic development and production in pre-colonial Africa | | | | | | | 1 | 5.0 |
| 7. | Africa and the external world | | | | | | | 1 | 5.0 |
| 8. | Industrial capitalism | | | | | | | 1 | 5.0 |
| 9. | Establishment of colonialism | | | | | | | 1 | 5.0 |
| 10. | Colonial administrative systems | | | | | | | 1 | 5.0 |
| 11. | Colonial economy | | | | | | | 1 | 5.0 |
| 12. | Colonial social services | | | | | | | 1 | 5.0 |
| 13. | Crises in the capitalist system | | | | | | | 1 | 5.0 |
| 14. | Nationalism and decolonisation | | | | | | | 3 | 15.0 |
| 15. | Changes in political, social and economic policies in Africa after independence | | | | | | | 3 | 15.0 |
| 16. | Africa in international affairs | | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weighting | | | | | | | | | 100 |

013 GEOGRAPHY

(For Both School and Private Candidates)

1.0 INTRODUCTION

The Geography examination format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The revised format is based on the 2005 Geography syllabus for Ordinary Secondary Education. The improvements made in this revised format include improving the examination rubric. However, the revision does not cover the examination objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 demonstrate knowledge of resources at the national and global levels;
- 2.2 apply the skills of observation, measuring, drawing, recording, and interpreting geographical phenomenon and apply them in solving daily life problems; and
- 2.3 apply the socio-economic skills to compete in the labour market of the globalised world.

3.0 GENERAL COMPETENCIES

The examination will assess the candidates' ability to:

- 3.1 identify the country's heritage;
- 3.2 use sustainably natural resources to raise the standard of living;
- 3.3 use different ways to overcome day-to-day socio-economic constraints;
- 3.4 explain interactions between their country and other countries and draw lessons to solve the existing problems;
- 3.5 draw, locate, present, observe, record, analyse, interpret geographical phenomenon and conduct research;
- 3.6 utilise skills and take appropriate measures to manage the environment; and
- 3.7 utilise socio-economic skills to compete successfully in the labour market within the globalised world.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for a **three (3)** hours duration. The paper will consist of **11** questions in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question consisting of **10** items. Each item will weigh **one (1)** mark, hence a total of **10** marks. Question number 2 will be a matching-items question, consisting of **six (6)** items. Each item will carry **one (1)** mark, making a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** essay questions. Candidates will be required to answer any **two (2)** questions. Each question in this section will weigh **15** marks. Therefore, the section will weigh a total of **30** marks.

5.0 EXAMINATION CONTENT

The following topics will be examined:

- 5.1 The concept of Geography
- 5.2 The solar system
- 5.3 Major features of the Earth's surface
- 5.4 Weather
- 5.5 Climate
- 5.6 Map reading and interpretation
- 5.7 Photograph reading and interpretation
- 5.8 Elementary surveying and map making
- 5.9 Introduction to research

- 5.10 Application of statistics
- 5.11 Agriculture
- 5.12 Water management for economic development
- 5.13 Sustainable use of forest resources
- 5.14 Sustainable mining
- 5.15 Tourism industry
- 5.16 Manufacturing industry
- 5.17 Sustainable use of power and energy resources
- 5.18 Transport
- 5.19 Structure of the Earth
- 5.20 Forces that affect the Earth
- 5.21 Climate and natural regions
- 5.22 Soil
- 5.23 Human population
- 5.24 Settlements
- 5.25 Environmental issues and management

Table of Specifications for 013 Geography

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|-----|-----------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | The concepts of Geography and the solar system | | | | | | | 2 | 10.0 |
| 2. | Major features of the Earth's surface and its structure | | | | | | | 1 | 5.0 |
| 3. | Weather, climate and natural regions | | | | | | | 2 | 10.0 |
| 4. | Map reading and interpretation | | | | | | | 1 | 5.0 |
| 5. | Photograph reading and interpretation | | | | | | | 1 | 5.0 |
| 6. | Elementary surveying and map making | | | | | | | 1 | 5.0 |
| 7. | Introduction to research and application of statistics | | | | | | | 1 | 5.0 |
| 8. | Human activities, agriculture and water management for economic development | | | | | | | 1 | 5.0 |
| 9. | Sustainable use of forest resources and sustainable mining | | | | | | | 1 | 5.0 |
| 10. | Tourism industry and transport | | | | | | | 1 | 5.0 |
| 11. | Manufacturing industry/ Sustainable use of power and energy | | | | | | | 2 | 10.0 |

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|--------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| | resources | | | | | | | | |
| 12. | Forces that affect the Earth's crust | | | | | | | 2 | 10.0 |
| 13. | Soil | | | | | | | 1 | 5.0 |
| 14. | Human population and settlements | | | | | | | 1 | 5.0 |
| 15. | Environmental issues and management | | | | | | | 2 | 10.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

014 BIBLE KNOWLEDGE

(For Both School and Private Candidates)

1.0 INTRODUCTION

The Bible Knowledge examination format is based on the 2019 format issued by the National Examinations Council of Tanzania (NECTA). It is also based on the 2012 Bible Knowledge Syllabus. There is no change in the examination rubric, objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 demonstrate the acquired knowledge of Biblical stories, quotations, places, characters (persons) and occasion of the statements;
- 2.2 use the knowledge gained from the Bible to protect and preserve humandignity and the environment; and
- 2.3 analyse Biblical information and teachings to improve social, cultural, political, economic and technological life in Tanzania.

3.0 GENERAL COMPETENCIES

The examination will test the candidates' ability to:

- 3.1 explain Biblical stories, quotations, places, characters (persons) and occasion of the statements in addition to making some interpretation and comments;
- 3.2 apply Biblical instructions and teaching in protecting and preserving human dignity and the environment as well as improve social, cultural, political, economic and technological life in Tanzania; and
- 3.3 demonstrate knowledge and skills on how to live in peace with other people of different beliefs.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper of **three (3)** hours. The paper will have **13** questions in sections A, B and C. The candidates will be required to answer **nine (9)** questions which will weigh **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will consist of **20** multiple-choice items from topics in the Old Testament and the Acts of Apostles. Each item will weigh **one (1)** mark, hence a total of **20** marks. Question number 2 will be a matching-item question with **five (5)** items, each carrying **one (1)** mark, hence a total of **five (5)** marks. Candidates will be required to answer **all** the questions. This section will carry a total of **25** marks.

Section B will consist of **eight (8)** short answer questions. The candidates will be required to answer **two (2)** compulsory questions (one from the Old Testament and the other from the Acts of the Apostles) and **three (3)** questions from either the Gospel of Matthew or the Gospel of Luke. Each question will carry **nine (9)** marks, making a total of **45** marks.

Section C will consist of **three (3)** essay questions from the Old Testament and the Acts of Apostles. Candidates will be required to answer **two (2)** questions. Each question will carry a total of **15** marks. This section will carry a total of **30** marks.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

5.1 Old Testament

- 5.1.1 Creation
- 5.1.2 The fall of man and its outcome
- 5.1.3 Life of Abraham
- 5.1.4 The sons of Isaac
- 5.1.5 The Hebrews in Egypt
- 5.1.6 Israelites' journey through the desert
- 5.1.7 Israel under the leadership of Joshua
- 5.1.8 Israel under the leadership of Judges

5.2 New Testament: Gospels of Matthew and Luke

- 5.2.1 General introduction: Jewish Institutions and Sects/Parties
- 5.2.2 The beginning: Birth, childhood and preparation of Jesus' ministry
- 5.2.3 Jesus' public ministry in Galilee
- 5.2.4 Jesus' ministry from Galilee to Jerusalem

- 5.2.5 Jesus in Jerusalem
- 5.2.6 The death and resurrection of Jesus

5.3 New Testament: Acts of the Apostles

- 5.3.1 Introduction to the Book of Acts
- 5.3.2 The Community in Jerusalem
- 5.3.3 Witnessing in Jerusalem
- 5.3.4 Witnessing in Judea and Samaria
- 5.3.5 Paul's Missionary Journeys

Table of Specifications for 014 Bible Knowledge

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-----------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Creation | | | | | | | 1 | 3.13 |
| 2. | The fall and its outcome | | | | | | | 2 | 6.25 |
| 3. | Life of Abraham | | | | | | | 1 | 3.13 |
| 4. | The sons of Isaac | | | | | | | 2 | 6.25 |
| 5. | The Hebrews in Egypt | | | | | | | 2 | 6.25 |
| 6. | Israelites' journey through the desert | | | | | | | 3 | 9.38 |
| 7. | Israel under the leadership of Joshua | | | | | | | 2 | 6.25 |
| 8. | Israel under the leadership of Judges | | | | | | | 2 | 6.25 |
| 9. | General introduction: Jewish institutions and sects/parties | | | | | | | 1 | 3.13 |
| 10. | The beginning: Birth, childhood, and preparation of Jesus' ministry | | | | | | | 1 | 3.13 |
| 11. | Jesus' public ministry in Galilee | | | | | | | 2 | 6.25 |
| 12. | Jesus' ministry from Galilee to Jerusalem/ Introduction to the Book of Acts | | | | | | | 1 | 3.13 |
| 13. | Jesus in Jerusalem | | | | | | | 2 | 6.25 |
| 14. | The death and resurrection of Jesus | | | | | | | 1 | 3.13 |
| 16. | The community in Jerusalem | | | | | | | 1 | 3.13 |
| 17. | Witnessing in Jerusalem | | | | | | | 2 | 6.25 |
| 18. | Witnessing in Judea and Samaria | | | | | | | 3 | 9.38 |
| 19. | Paul's missionary journeys | | | | | | | 3 | 9.38 |
| Total Number of Items | | | | | | | | 32 | |
| Total Percentage Weight | | | | | | | | | 100 |

015 ELIMU YA DINI YA KIISLAMU
(Kwa Watahiniwa Walioko na Wasiokuwa Shuleni)

1.0 UTANGULIZI

Fomati hii ya mtihani wa somo la Elimu ya Dini ya Kiislamu ni maboresho ya fomati ya mwaka 2019 iliyotolewa na Baraza la Mitihani la Tanzania. Fomati hii inatokana na muhtasari wa Elimu ya Dini ya Kiislamu wa mwaka 2012. Katika fomati hii, maboresho yamefanyika katika muundo wa mtihani. Mbali na maboresho haya, hakuna mabadiliko katika mada zitakazopimwa, malengo ya jumla na ujuzi.

2.0 MALENGO YA JUMLA

Mtihani utapima ni kwa kiwango gani mtahiniwa anaweza:

- 2.1 kuelezea dini ya Kiislamu;
- 2.2 kuchambua sura za Qur'an zilizoteuliwa na kueleza uhusiano wake na maisha ya mwanadamu;
- 2.3 kueleza chimbuko la Fiqh na Sharia kwa ujumla;
- 2.4 kuchambua Nguzo za Uislamu na uhusiano wake na maisha ya kila siku;
- 2.5 kueleza Nguzo za Imani na matumizi yake katika kufanya ibada za kila siku; na
- 2.6 kueleza kwa usahihi historia ya Uislamu.

3.0 UJUZI WA JUMLA

Mtihani utapima uwezo wa mtahiniwa katika:

- 3.1 kueleza maana, dhima, ukusanyaji, uhifadhi na mafunzo ya Hadithi na Sunnah;
- 3.2 kueleza kuhusu kushushwa, kuhifadhiwa na kukusanywa mafunzo ya Sura zilizochaguliwa;
- 3.3 kuthibitisha na kuitetea Qur'an kuwa ni neno la Mwenyezi-Mungu;
- 3.4 kueleza dhana ya Dini ya Uislamu;
- 3.5 kuchambua nguzo za imani na nguzo za Uislamu;
- 3.6 kutofautisha Uislamu na imani nyingine;
- 3.7 kuchambua chimbuko la Fiqh;
- 3.8 kuhusisha Fiqh na maisha ya kila siku;

- 3.9 kueleza mtazamo wa Uislamu juu ya ibada;
- 3.10 kuchambua mfumo wa maisha ya Kiislamu kijamii, kiuchumi na kisiasa; na
- 3.11 kuchambua nyakati muhimu katika dini ya Kiislamu kabla ya Mtume (s.a.w), kipindi cha Mtume (s.a.w), kipindi cha Makhaliifa wa Mtume hadi sasa na maisha ya kila siku ya waislamu wa zama za sasa.

4.0 MUUNDO WA MTIHANI

Mtihani utafanywa kwa muda wa saa **tatu (3)**. Mtihani utakuwa na karatasi moja (1) iliyogawanyika katika sehemu A, B na C zenye jumla ya maswali **11**. Mthaniwa atatakiwa kujibu maswali **yote** katika sehemu A na B na maswali **mawili (2)** kutoka sehemu C. Mtihani utakuwa na jumla ya alama **100**.

Sehemu A itakuwa na maswali **mawili (2)**. Swali la kwanza litakuwa la kuchagua jibu sahihi lenye vipengele **10**. Kila kipengele kitakuwa na alama **moja (1)**, hivyo swali litakuwa na jumla ya alama **10**. Swali la pili litakuwa la kuonisha lenye vipengele **sita (6)**. Kila kipengele kitakuwa na alama **moja (1)**, hivyo swali litakuwa na jumla ya alama **sita (6)**. Sehemu hii itakuwa na jumla ya alama **16**.

Sehemu B itakuwa na maswali **sita (6)** ya majibu mafupi. Kila swali litakuwa na alama **tisa (9)**. Hivyo, sehemu hii itakuwa na alama **54**.

Sehemu C itakuwa na maswali **matatu (3)** ya insha. Mthaniwa atatakiwa kujibu maswali **mawili (2)**. Kila swali litakuwa na uzito wa alama **15**. Hivyo sehemu hii itakuwa na jumla ya alama **30**.

5.0 MADA ZITAKAZOTAHINIWA

Watahiniwa watapimwa katika mada zifuatazo:

- 5.1 Mtazamo wa Uislamu juu ya elimu
- 5.2 Imani ya Kiislamu na kumjua Mwenyezi Mungu
- 5.3 Mtazamo wa Uislamu juu ya dini
- 5.4 Fiqh na chimbuko la Fiqh
- 5.5 Mtazamo wa Uislamu juu ya ibada
- 5.6 Dini sahihi anayostahiki mwanadamu
- 5.7 Nguzo za Uislamu
- 5.8 Mambo ya lazima kufanyiwa maiti wa Kiislamu

- 5.9 Nguzo za Imani
- 5.10 Familia ya Kiislamu
- 5.11 Mfumo wa jamii ya Kiislamu
- 5.12 Qur'an
- 5.13 Sunnah na Hadithi
- 5.14 Historia katika Uislamu
- 5.15 Bara Arab zama za Jahiliyyah karne ya 6 A.D
- 5.16 Haki na uadilifu katika Uislamu
- 5.17 Dola ya Kiislamu Madinah
- 5.18 Historia ya Uislamu baada ya kutawafu Mtume (s.a.w) hadi hivi leo

Jedwali la Kutahini 015 Elimu ya Dini ya Kiislamu

| Na. | Mada | Ujuzi Utakaopimwa | | | | | | Idadi ya Maswali kwa kila Mada | Asilimia ya Uzito wa Mada |
|----------------------------------------------|----------------------------------------------------------------------|-------------------|---------|---------|-----------|------------|--------|-----------------------------------|------------------------------|
| | | Kukumbuka | Kuelewa | Kutumia | Kuchambua | Kutathmini | Kuunda | | |
| 1. | Mtazamo wa Uislamu juu ya elimu | | | | | | | 1 | 5 |
| 2. | Mtazamo wa Uislamu juu ya dini na dini sahihi anayostahiki mwanadamu | | | | | | | 1 | 5 |
| 3. | Imani ya Kiislamu na kumjua Mwenyezi Mungu | | | | | | | 1 | 5 |
| 4. | Fiqh, Chimbuko la Fiqh na mtazamo wa Uislamu juu ya ibada | | | | | | | 1 | 5 |
| 5. | Mambo ya lazima kufanyiwa maiti wa Kiislamu | | | | | | | 1 | 5 |
| 6. | Nguzo za Uislamu | | | | | | | 3 | 15 |
| 7. | Qur'an | | | | | | | 2 | 10 |
| 8. | Sunnah na Hadithi | | | | | | | 2 | 10 |
| 9. | Historia katika Uislamu | | | | | | | 1 | 5 |
| 10. | Bara Arab zama za Jahiliyyah karne ya 6 A.D | | | | | | | 1 | 5 |
| 11. | Nguzo za imani | | | | | | | 1 | 5 |
| 12. | Haki na uadilifu katika Uislamu | | | | | | | 1 | 5 |
| 13. | Dola ya Kiislamu Madinah | | | | | | | 1 | 5 |
| 14. | Familia ya Kiislamu | | | | | | | 1 | 5 |
| 15. | Mfumo wa Jamii ya Kiislamu | | | | | | | 1 | 5 |
| 16. | Historia ya Uislamu baada ya Kutawafu Mtume (s.a.w) hadi hivi leo | | | | | | | 1 | 5 |
| Jumla ya Maswali | | | | | | | | 20 | |
| Jumla ya Asilimia ya Uzito wa Maswali | | | | | | | | | 100 |

016 FINE ART

(For Both School and Private Candidates)

1.0 INTRODUCTION

The Fine Art examination format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2010 Fine Art syllabus for Ordinary Secondary school. In this format the examination rubric has been improved without changing the examination objectives, content and competencies that will be assessed.

2.0 GENERAL OBJECTIVES

The examination will generally measure the extent to which candidates can:

- 2.1 demonstrate knowledge on art theory as well as practical skills and competencies in artistic production(s);
- 2.2 apply artistic skills and knowledge in providing quality services and in refining society and the environment for better living standards;
- 2.3 use knowledge and skills to recognise and promote the artistic heritage of Tanzania; and
- 2.4 demonstrate the acquired knowledge, skills and competencies that will qualify them to pursue further education or professional arts-based career in the field of Fine Art.

3.0 GENERAL COMPETENCIES

The examination will assess the candidates' ability to:

- 3.1 explain Fine Art terminologies and theories;
- 3.2 create pictorial arts with communicative and aesthetic values;
- 3.3 provide constructive criticism on Fine Art works;
- 3.4 make drawings, paintings and designs;
- 3.5 produce Fine Art works using traditional and modern technologies; and
- 3.6 demonstrate entrepreneurship in Fine Art.

4.0 EXAMINATION RUBRIC

The examination will consist of two papers: 016/1 Fine Art 1 (Theory) and 016/2 Fine Art 2 (Practical).

4.1 016/1 Fine Art 1 (Theory Paper 1)

This will be a theory paper for **three (3)** hours. The paper will consist of sections A, B and C with a total of **11** questions. Candidates will be required to answer **10** questions, which will weigh **100** marks.

Section A will consist of **two (2)** questions. Question number 1 will be a multiple-choice question with **10** items, each carrying **one (1)** mark. Question number 2 will be a matching-items question with **six (6)** items, each carrying **one (1)** mark. Candidates will be required to answer **both** questions. This section will weigh **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** questions, which will either be an essay-type or structured questions, each carrying **15** marks. Candidates will be required to answer **two (2)** questions. Therefore, the section will weigh **30** marks.

4.2 016/2 Fine Art 2 (Practical Paper 2)

This will be a practical paper for **five (5)** hours. The paper will consist of sections A and B with **four (4)** questions. Candidates will be required to answer **two (2)** questions, which will weigh **100** marks.

Section A will consist of **two (2)** structured questions. The questions will be set from a Drawing topic. Each question will

weigh **50** marks. The candidates will be required to answer **one (1)** question. Hence, the section will carry **50** marks.

Section B will consist of **two (2)** structured questions. The questions will be set from Painting and Designing topics. Each question will weigh **50** marks. The candidates will be required to answer **one (1)** question. Hence, the section will carry **50** marks.

Note: The actual practical paper will have a checklist for materials required for the examination that will be sent to schools at least three months before the date of sitting for the practical paper. However, **3 Hours Advance Instructions** will be dispatched for making Studio/Fine Arts laboratory arrangements.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

5.1 016/1 Fine Art 1

- 5.1.1 Theory of Art
- 5.1.2 Drawing
- 5.1.3 Painting
- 5.1.4 Designing
- 5.1.5 Fine Arts entrepreneurship

5.2 016/ 2 Fine Art 2

- 5.2.1 Drawing
- 5.2.2 Painting
- 5.2.3 Designing

Table of Specifications for 016/1 Fine Art 1

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|---------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Theory of Art | | | | | | | 1 | 6.0 |
| 2. | Drawing | | | | | | | 7 | 34.0 |
| 3. | Painting | | | | | | | 5 | 25.0 |
| 4. | Designing | | | | | | | 6 | 29.0 |
| 5. | Fine Art Entrepreneurship | | | | | | | 1 | 6.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

Table of Specifications for 016/2 Fine Arts 2

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight Per Topic |
|--------------------------------|-----------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Drawing | | | | | | | 2 | 50.0 |
| 2. | Painting | | | | | | | 1 | 25.0 |
| 3. | Designing | | | | | | | 1 | 25.0 |
| Total Number of Items | | | | | | | | 4 | |
| Total Percentage Weight | | | | | | | | | 100 |

017 MUSIC
(For School Candidates Only)

1.0 INTRODUCTION

The Music examination format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2005 Music Syllabus for Ordinary Secondary Education. In this format the examination rubric has been improved without changing the examination objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will measure the extent to which candidates can:

- 2.1 apply reading, writing and listening skills to music;
- 2.2 demonstrate skills of singing simple melodies at sight;
- 2.3 compose simple rhythms and melodies using aesthetic values;
- 2.4 harmonise simple music;
- 2.5 demonstrate skill of singing melodies of selected songs;
- 2.6 demonstrate procedures of playing traditional and modern musical instruments of Tanzania;
- 2.7 critique musical works based on the principles of good melody; and
- 2.8 explain musical terms and signs related to loudness, softness, speed and expression.

3.0 GENERAL COMPETENCIES

The examination will measure the candidates' ability to:

- 3.1 explain music terminologies and theories;
- 3.2 demonstrate writing and listening skills in music;
- 3.3 perform music (singing and playing musical instruments);
- 3.4 compose music using aesthetic values;
- 3.5 harmonise music;
- 3.6 criticise music works; and
- 3.7 demonstrate entrepreneurship skills.

4.0 EXAMINATION RUBRIC

The examination will consist of two papers: Paper 017/1 Music 1 (Theory Paper) and Paper 017/2 Music 2 (Practical Paper).

4.1 Paper 017/1 Music 1 (Theory Paper)

This paper will be a **three (3)** hour examination. It will consist of sections A, B and C with a total of **11** questions. Candidates will be required to answer **ten (10)** questions which will weigh **100** marks.

Section A will consist of **two (2)** questions. Question number 1 will be a multiple-choice question with **10** items. Question 2 will be a matching-item question with **six (6)** items. Each item in both multiple-choice and matching-items questions will carry **one (1)** mark. Candidates will be required to answer **all** the questions. The section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** essay questions. Candidates will be required to answer **two (2)** questions. Each question will weigh **15** marks. The section will weigh a total of **30** marks.

4.2 Paper 017/2 Music 2 (Practical Paper)

This paper will be for **two (2)** hours and will consist of **10** practical questions. Each question will weigh **10** marks. Candidates will be required to answer **all** the questions, which will weigh **100** marks.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

5.1 017/1 Music 1

- 5.1.1 Rudiments of music
- 5.1.2 Harmony
- 5.1.3 Applied music

5.2 017/2 Music 2

5.2.1 Rudiments of music

5.2.2 Harmony

5.2.3 Applied music

Table of Specifications for 017/1 Music 1

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Rudiment of music | | | | | | | 10 | 50.0 |
| 2. | Harmony | | | | | | | 3 | 15.0 |
| 3. | Applied music | | | | | | | 7 | 35.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

Table of Specifications for 017/2 Music 2

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Rudiment of music | | | | | | | 5 | 50.0 |
| 2. | Harmony | | | | | | | 1 | 10.0 |
| 3. | Applied music | | | | | | | 4 | 40.0 |
| Total Number of Items | | | | | | | | 10 | |
| Total Percentage Weight | | | | | | | | | 100 |

018 PHYSICAL EDUCATION

(For School Candidates Only)

1.0 INTRODUCTION

The Physical Education examination format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2005 Physical Education Syllabus for Ordinary Secondary Education. This format improves the examination rubric without changing the examination objectives, content and competencies to be assessed.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 demonstrate a sense of obedience, responsibility, self-confidence and co-operation, regardless of gender and socio-economic background;
- 2.2 demonstrate the strength preference and mental abilities in various sports activities;
- 2.3 show skills of practising physical exercises, sports and games, and recreational activities; and
- 2.4 apply health rules, render first aid and safety measures at individual and community levels.

3.0 GENERAL COMPETENCIES

The examination will assess the candidates' ability to demonstrate:

- 3.1 skills relating to the social and moral standards of sport behaviour;
- 3.2 neuromuscular skills and physical development;
- 3.3 sport habits and performance skills;
- 3.4 interest to participate in sport and recreational activities; and
- 3.5 skills to render first aid and safety services at individual and community levels.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for **three (3)** hours. The paper will consist of **11** questions in sections A, B and C. The candidates will be

required to answer **all** the questions in sections A and B and **two (2)**

questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each question will weigh **one (1)** mark, making a total of **10** marks. Question number 2 will be a matching-items question, consisting of **six (6)** items. Each item will carry **one (1)** mark, making a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** essay questions. Candidates will be required to answer any **two (2)** questions. Each question in this section will weigh **15** marks. Therefore, the section will weigh a total of **30** marks.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

- 5.1 Principles of Physical Education
- 5.2 First Aid
- 5.3 Safety
- 5.4 Health-related physical fitness
- 5.5 Performance related physical fitness
- 5.6 Gymnastics
- 5.7 Swimming
- 5.8 Recreation and outdoor activities
- 5.9 Ball games
- 5.10 Track and field events
- 5.11 Racket games
- 5.12 Management and administration of physical activities

Table of Specifications for 018 Physical Education

| S/N | Topic | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-----------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Principles of physical education/ Safety/ First aid | | | | | | | 1 | 5.0 |
| 2. | Health-related physical fitness/ Performance related physical fitness | | | | | | | 1 | 5.0 |
| 3. | Gymnastics | | | | | | | 2 | 10.0 |
| 4. | Swimming | | | | | | | 1 | 5.0 |
| 5. | Recreation and outdoor activities | | | | | | | 2 | 10.0 |
| 6. | Ball games | | | | | | | 5 | 25.0 |
| 7. | Track and field events | | | | | | | 3 | 15.0 |
| 8. | Racket games | | | | | | | 4 | 20.0 |
| 9. | Management and administration of physical activities | | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

019 THEATRE ARTS

(For School Candidates Only)

1.0 INTRODUCTION

The Theatre Arts examination format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2008 Theatre Arts for Ordinary Level Syllabus. This format improves the examination rubric while retaining the examination objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will measure the extent to which candidates can:

- 2.1 describe the elements of personal and national culture;
- 2.2 demonstrate various skills in Theatre Arts, elements of Theatre Arts and forms of Theatre Arts;
- 2.3 apply performing techniques in African theatrical performance;
- 2.4 demonstrate skills of Theatre production;
- 2.5 describe contemporary Theatre practices in Tanzania;
- 2.6 analyse the cross-cutting issues, their impact upon the society, and intervention for enhancing Theatre Arts; and
- 2.7 Create various theatrical performance

3.0 GENERAL COMPETENCIES

The examination will measure the candidates' ability to:

- 3.1 demonstrate an understanding of cultural expressions;
- 3.2 apply various skills and forms of Theatre Arts in communicating ideas;
- 3.3 use numerous performing techniques in African Theatre productions;
- 3.4 demonstrate and promote Theatre Arts works;
- 3.5 demonstrate skills necessary for a theatrical production;
- 3.6 show knowledge of contemporary Theatre practices in Tanzania;
- 3.7 analyse cross-cutting issues using Theatre Arts;
- 3.8 perform Theatre Arts works; and
- 3.9 provide possible interventions through Theatre Arts.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for **three (3)** hours. The paper will consist of **11** questions in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each item will weigh **one (1)** mark, making a total of **10** marks. Question number 2 will be a matching-items question, consisting of **six (6)** items. Each item will carry **one (1)** mark, hence a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** essay questions. Candidates will be required to answer any **two (2)** questions. Each question in this section will weigh **15** marks. Therefore, the section will weigh a total of **30** marks.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

- 5.1 Culture
- 5.2 Art
- 5.3 Theatre Arts
- 5.4 Theatre Arts practices in Tanzania
- 5.5 World Theatre practices
- 5.6 Performing techniques in African Theatre
- 5.7 Performing techniques in selecting non-African Theatre
- 5.8 Theatre production
- 5.9 Theatre for social change
- 5.10 Creation of Theatre performance
- 5.11 Contemporary Theatre Practices

Table of Specifications for 019 Theatre Arts

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Culture/Art | | | | | | | 1 | 5.0 |
| 2. | Theatre Arts | | | | | | | 2 | 10.0 |
| 3. | Theatre Arts in Tanzania | | | | | | | 2 | 10.0 |
| 4. | World theatre practice | | | | | | | 2 | 10.0 |
| 5. | Performing techniques in African theatre | | | | | | | 1 | 6.0 |
| 6. | Performing techniques in selected Non-African theatre | | | | | | | 2 | 10.0 |
| 7. | Theatre production | | | | | | | 4 | 20.0 |
| 8. | Theatre for social change | | | | | | | 2 | 10.0 |
| 9. | Creation of theatre performance | | | | | | | 2 | 10.0 |
| 10. | Contemporary theatre practices | | | | | | | 2 | 10.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

021 KISWAHILI

(Kwa Watahiniwa Walioko na Wasiokuwa Shuleni)

1.0 UTANGULIZI

Fomati hii ya mtihani wa somo la Kiswahili imetokana na marekebisho yaliyofanywa katika fomati ya mwaka 2019 iliyotolewa na Baraza la Mitihani la Tanzania. Fomati hii inazingatia muhtasari wa somo la Kiswahili wa mwaka 2010. Maboresho yaliyofanyika katika fomati hii yanahusu muundo wa mtihani. Aidha, hakuna maboresho yaliyofanyika katika malengo ya jumla, ujuzi unaopimwa, na mada zitakazotahiniwa.

2.0 MALENGO YA JUMLA

Malengo ya jumla ya mtihani ni kupima kwa kiwango gani mtahiniwa anaweza:

- 2.1 kuwasiliana kwa Kiswahili fasaha katika fani mbalimbali za maisha;
- 2.2 kubaini viashiria vya uthamini wa Kiswahili kama sehemu muhimu ya utamaduni wa Tanzania;
- 2.3 kuonesha ujuzi wa kudadisi na kubuni masuala mbalimbali ya lugha na fasihi ya Kiswahili;
- 2.4 kutumia kazi za fasihi katika maisha ya kila siku;
- 2.5 kutumia lugha ya Kiswahili katika miktadha mbalimbali;
- 2.6 kubainisha njia mbalimbali za ukuzaji na uenezaji wa Kiswahili ili kiweze kutumika kwa mawasiliano na nchi jirani na kimataifa;
- 2.7 kujisomea maandiko mbalimbali ya Kiswahili;
- 2.8 kujenga msingi bora na imara wa kujifunza na kujiendeleza; na
- 2.9 kutumia Kiswahili kupata maarifa, mwelekeo na stadi za kijamii, kitamaduni, kiteknolojia na kitaaluma kutoka ndani na nje ya nchi.

3.0 UJUZI WA JUMLA

Utahini kwa kutumia fomati hii utazingatia upimaji wa ujuzi na utendaji wa mtahiniwa katika:

- 3.1 kusikiliza na kuwasiliana kwa Kiswahili sanifu katika miktadha mbalimbali;

- 3.2 kubaini viashiria vya uthamani wa Kiswahili kama lugha ya Taifa;
- 3.3 kusoma maandiko mbalimbali ya Kiswahili kwa ufanisi;
- 3.4 kuandika habari fupi na ndefu kwa Kiswahili sanifu;
- 3.5 kusoma kwa ufahamu na kujisomea ili kupata maarifa na burudani;
- 3.6 kutumia lugha ya kifasihi katika mawasiliano kwa kuzingatia stadi zote za lugha na;
- 3.7 kutafiti vipengele mbalimbali vya lugha ya Kiswahili.

4.0 MUUNDO WA MTIHANI

Mtihani utafanywa kwa muda wa saa **tatu (3)**. Mtihani utakuwa na karatasi moja (1) iliyogawanyika katika sehemu A, B na C zenye jumla ya maswali **11**. Mtahiniwa atatakiwa kujibu maswali **yote** katika sehemu A na B na maswali **mawili (2)** kutoka sehemu C. Mtihani utakuwa na jumla ya alama **100**.

Sehemu A itakuwa na maswali **mawili (2)**. Swali la kwanza litakuwa la kuchagua jibu sahihi lenye vipengele **10**. Kila kipengele kitakuwa na alama **moja (1)**, hivyo swali litakuwa na jumla ya alama **10**. Swali la pili litakuwa la kuoanisha lenye vipengele **sita (6)**. Kila kipengele kitakuwa na alama **moja (1)**, hivyo swali litakuwa na jumla ya alama **sita (6)**. Sehemu hii itakuwa na jumla ya alama **16**.

Sehemu B itakuwa na maswali **sita (6)** ya majibu mafupi. Kila swali litakuwa na alama **tisa (9)**. Hivyo, sehemu hii itakuwa na alama **54**.

Sehemu C itakuwa na maswali **matatu (3)** ya insha. Mtahiniwa atatakiwa kujibu maswali **mawili (2)** ambapo swali moja litakuwa la **lazima**. Kila swali litakuwa na uzito wa alama **15**. Hivyo sehemu hii itakuwa na jumla ya alama **30**.

5.0 MADA ZA KUTAHINI

Watahiniwa watapimwa katika mada zifuatazo:

- 5.1 Ufahamu
- 5.2 Sarufi
- 5.3 Utumizi wa Lugha
- 5.4 Uandishi

5.5 Maendeleo ya Kiswahili

5.6 Fasihi

Tanbihi

Orodha ya vitabu vya Fasihi vitakavyotumika katika somo la Kiswahili ni vilivyoidhinishwa na Wizara ya Elimu Sayansi na Teknolojia.

Jedwali la Utahini la 021 Kiswahili

| Na. | Mada | Ujuzi Utakaopimwa | | | | | | Idadi ya Maswali kwa kila Mada | Asilimia ya Uzito kwa kila Mada |
|----------------------------------------------|------------------------|-------------------|---------|---------|-----------|------------|--------|--------------------------------|---------------------------------|
| | | Kukumbuka | Kuelewa | Kutumia | Kuchambua | Kutathmini | Kuunda | | |
| 1. | Ufahamu | | | | | | | 3 | 15 |
| 2. | Sarufi | | | | | | | 4 | 20 |
| 3. | Utumizi wa lugha | | | | | | | 1 | 5 |
| 4. | Uandishi | | | | | | | 4 | 20 |
| 5. | Maendeleo ya Kiswahili | | | | | | | 2 | 10 |
| 6. | Fasihi | | | | | | | 6 | 30 |
| Jumla ya Maswali | | | | | | | | 20 | |
| Jumla ya Asilimia ya Uzito wa Maswali | | | | | | | | | 100 |

022 ENGLISH LANGUAGE

(For Both School and Private Candidates)

1.0 INTRODUCTION

This English Language format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2010 English Language syllabus. The improvements in this revised format is on the examination rubric without altering the examination objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will measure the extent to which candidates can:

- 2.1 express themselves in both spoken and written English Language;
- 2.2 demonstrate skills on reading widely for pleasure and for information;
- 2.3 perform a variety of writing tasks according to the required principles;
- 2.4 use the knowledge of the English Language to demonstrate awareness and consciousness of the societal basics and the part they can play in its development;
- 2.5 use the knowledge of the English Language to further their education; and
- 2.6 communicate effectively with other speakers of the English Language both inside and outside the country.

3.0 GENERAL COMPETENCIES

The examination will measure the candidates' ability to:

- 3.1 use the English Language appropriately to communicate in a variety of settings;
- 3.2 use the English Language to write a variety of things in different contexts;
- 3.3 use the English Language to demonstrate their ability to read and comprehend written documents; and
- 3.4 use the English Language to achieve academically in all content areas.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper of **three (3)** hours. The paper will consist of **11** questions in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each item will weigh **one (1)** mark, making a total of **10** marks. Question number 2 will be a matching-items question, consisting of **six (6)** items. Each item will carry **one (1)** mark, hence a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** essay questions. Candidates will be required to answer **two (2)** questions, out of which, one will be compulsory. Each question in this section will weigh **15** marks. Therefore, the section will weigh a total of **30** marks.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

- 5.1 Giving directions and locating places.
- 5.2 Expressing opinions and feelings.
- 5.3 Writing a variety of texts, cards and messages, personal and application letters, using appropriate language content and style.
- 5.4 Reading a variety of texts, comprehension, information from the media and dictionary use.
- 5.5 Expressing personal and group routines, and likes and dislikes.
- 5.6 Expressing on-going activities.
- 5.7 Talking about one's family, giving descriptions, and talking about cultural activities.
- 5.8 Talking about past events/activities, and expressing future plans/activities.

- 5.9 Asking for services.
- 5.10 Using appropriate language content and style in speaking.
- 5.11 Interpreting and analysing literary works.

Note: The lists of readings in literary works for this subject are those approved by the Ministry of Education, Science and Technology.

Table of Specifications for 022 English Language

| S/N | Topics | Skills to be Tested | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------|----------|-----------|------------|---------------------------|-----------------------------|
| | | Remember | Understan | Applying | Analysing | Evaluating | | |
| 1. | Giving directions and locating places | | | | | | 1 | 5.0 |
| 2. | Expressing opinions and feelings | | | | | | 1 | 5.0 |
| 3. | Writing a variety of texts, cards and messages, personal and application letters, using appropriate language, content, and style | | | | | | 4 | 20.0 |
| 4. | Reading a variety of texts, comprehension, information from the media and Dictionary use | | | | | | 2 | 10.0 |
| 5. | Expressing personal and group routines and likes and dislikes | | | | | | 1 | 5.0 |
| 6. | Expressing on-going activities | | | | | | 2 | 10.0 |
| 7. | Talking about one's family, giving descriptions and talking about cultural activities | | | | | | 2 | 10.0 |
| 8. | Interpreting and analysing literary works | | | | | | 3 | 15.0 |
| 9. | Talking about past events/activities and expressing future plans/activities | | | | | | 2 | 10.0 |
| 10. | Asking for services | | | | | | 1 | 5.0 |
| 11. | Using appropriate language content and style in speaking | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | 100 |

023 FRENCH LANGUAGE

(For Both School and Private Candidates)

1.0 INTRODUCTION

The French Language examination format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The examination format is based on the 2010 French Language syllabus. This revised format improves the examination rubric, but without changing the examination objectives, content, and competencies.

2.0 GENERAL OBJECTIVES

The examination will measure the extent to which the candidate can:

- 2.1 communicate in the French Language in a simple way in various situations;
- 2.2 read and write the texts and letters correctly in simple French;
- 2.3 express feelings, ideas and attitudes;
- 2.4 demonstrate skills in using the French language appropriately; and
- 2.5 demonstrate skills in using vocabulary appropriately.

3.0 GENERAL COMPETENCIES

The examination will measure the candidates' ability to:

- 3.1 demonstrate skills in writing a simple text in French;
- 3.2 use French for communication in obtaining basic needs in various situations;
- 3.3 express themselves correctly in written French;
- 3.4 read and comprehend a written text in French; and
- 3.5 use French grammatical patterns correctly.

4.0 EXAMINATION RUBRIC

There will be **one (1) three (3) hour paper**. It will consist of **11** questions in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will account for **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each item will

weigh **one (1)** mark, making a total of **10** marks. Question number 2 will be a matching-items question, consisting of **six (6)** items. Each item will carry **one (1)** mark, hence a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** essay questions. Candidates will be required to answer any **two (2)** questions. Each question in this section will weigh **15** marks. Therefore, the section will weigh a total of **30** marks.

5.0 EXAMINATION CONTENT

The candidates will be assessed on the following topics:

- 5.1 Greetings and Saying Goodbye, Introducing yourself and others.
- 5.2 Talking about things surrounding us.
- 5.3 Expressing quantity and telling time, dates, months and years.
- 5.4 Expressing habits/routines, likes and dislikes.
- 5.5 Characterising things and people.
- 5.6 Talking about past events.
- 5.7 Expressing comparisons.
- 5.8 Giving permission, and orders and refusing.
- 5.9 Expressing feelings and localising places, expressing wishes and opinions.
- 5.10 Expressing suggestions and future plans.
- 5.11 Talking about seasons and weather.
- 5.12 Talking about our journeys.
- 5.13 Reading for comprehension and understanding simple texts.
- 5.14 Debates, composition writing and writing letters.

Table of Specifications for 023 French Language

| S/N | Topic | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|---------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Greetings and saying goodbye, Introducing yourself and others | | | | | | | 1 | 5.0 |
| 2. | Talking about things surrounding us | | | | | | | 2 | 10.0 |
| 3. | Expressing quantity, and telling time, dates, months and years | | | | | | | 1 | 5.0 |
| 4. | Expressing habit, routines, likes and dislikes | | | | | | | 2 | 10.0 |
| 5. | Characterising things and people | | | | | | | 1 | 5.0 |
| 6. | Talking about events | | | | | | | 1 | 5.0 |
| 7. | Expressing comparison | | | | | | | 1 | 5.0 |
| 8. | Giving permission and orders, and refusing | | | | | | | 1 | 5.0 |
| 9. | Expressing feelings and localising places, expressing wishes and opinions | | | | | | | 1 | 5.0 |
| 10. | Expressing suggestions and future plans | | | | | | | 1 | 5.0 |
| 11. | Talking about seasons and weather, talking about journey | | | | | | | 2 | 10.0 |
| 12. | Talking about our journey | | | | | | | 1 | 5.0 |
| 13. | Reading for comprehension and understanding simple texts | | | | | | | 3 | 15.0 |
| 14. | Debates, composition writing, and writing letters | | | | | | | 2 | 10.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

024 LITERATURE IN ENGLISH
(For Both School and Private Candidates)

1.0 INTRODUCTION

This examination format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2019 Literature in English syllabus for Ordinary Level Education. Improvements in the syllabus include changing some sub topics to topics, as a result, this revised format improves the examination rubric as well as the content. However, the general objectives, and competencies remain unchanged.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 use the knowledge of theories of literature, literary genres, form and content in plays, novels, short stories and poetry;
- 2.2 produce continuous narratives, arguments or pieces of descriptive or informative writing e.g., of a character, plot, a scene, message, or an event;
- 2.3 analyse critically different issues in literature that are related to everyday life; and
- 2.4 adopt what they have learnt in the subject to improve his or her language competence and to further his or her life and education.

3.0 GENERAL COMPETENCES

The examination will assess the ability of candidates to:

- 3.1 recall the meaning of literature as an artistic expression of the people's culture;
- 3.2 demonstrate knowledge of style in writing;
- 3.3 differentiate between form and content in novels, short stories, plays and poetry;
- 3.4 define literary terms and exemplify literary genres;
- 3.5 describe the roles of characters in plays, novels, and short stories, and relate their behaviour and actions to everyday life; and
- 3.6 differentiate poetry from prose and plays.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for a **three (3)** hours duration. The paper will consist of **11** questions in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each item will weigh **one (1)** mark, making a total of **10** marks. Question number 2 will be a matching-items question, consisting of **six (6)** items. Each item will carry **one (1)** mark, hence a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** essay questions. Candidates will be required to answer any **two (2)** questions. Each question in this section will weigh **15** marks. Therefore, the section will weigh a total of **30** marks.

5.0 EXAMINATION CONTENT

The candidates will be tested on the following topics:

- 5.1 Introduction to Literature
- 5.2 Oral Literature
- 5.3 Written Literature
- 5.4 Appreciating and analysing plays
- 5.5 Appreciating and analysing novels and short stories
- 5.6 Appreciating and analysing poetry

The List of texts for 'Plays' for reference will be:

The Lion and the Jewel - Soyinka, W.

The Trials of Brother Jero - Soyinka, W.

The Dilemma of a Ghost - Aidoo, A.A.

The Government Inspector - Gogol, N.

The list of ‘Novels’ and ‘Short Stories’ under this section will be:

A Walk in the Night and Other Stories - La Guma, A.

Houseboy - Oyono, F.

The Old Man and the Medal - Oyono, F.

The Concubine - Amadi, E.

The reference for Poetry will be *Selected Poems* compiled by the Tanzania Institute of Education (TIE) and *Growing Up with Poetry: An Anthology for Secondary Schools* edited by David Rubadiri.

Note: Apart from the list of readings mentioned above, subsequently the texts approved by the Ministry of Education, Science and Technology will also be used.

Table of Specifications for 024 Literature in English

| S/N | Topic | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-----------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Introduction to literature | | | | | | | 4 | 20.0 |
| 2. | Oral literature | | | | | | | 4 | 20.0 |
| 3. | Written literature | | | | | | | 4 | 20.0 |
| 4. | Appreciating and analysing plays | | | | | | | 3 | 15.0 |
| 5. | Appreciating and analysing novels and short stories | | | | | | | 2 | 10.0 |
| 6. | Appreciating and analysing poetry | | | | | | | 3 | 15.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

025 ARABIC LANGUAGE

(For Both School and Private Candidates)

1.0 INTRODUCTION

This examination format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). This format is based on the 2019 revised Arabic Language syllabus for Ordinary Secondary Education. Improvements in the syllabus include adding new and removing some content; and shifting some topics from one level to a more appropriate one. As a result, this revised format improves the examination rubric, as well as the content, general objectives and competencies.

2.0 GENERAL OBJECTIVES

The examination will generally measure the candidates' ability to:

- 2.1 comprehend texts written in Arabic language;
- 2.2 summarise texts written in Arabic language;
- 2.3 use the knowledge of literature and literary texts;
- 2.4 use knowledge of Arabic rhetorical words in furthering their education;
- 2.5 communicate correctly using the Arabic Language in different context; and
- 2.6 write Arabic composition correctly.

3.0 GENERAL COMPETENCIES

The Arabic Language examination will measure the candidates' ability to:

- 3.1 read Arabic texts for comprehension;
- 3.2 write a summary of a given Arabic text;
- 3.3 analyse and express feelings and ideas represented in literary texts;
- 3.4 analyse rhetorical sentences, poems and prose;
- 3.5 write a composition in Arabic communicatively; and
- 3.6 respond in writing to a set of literary readings.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for **three (3)** hours. The paper will consist of sections A, B and C with a total **11** questions. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a

multiple-choice question, consisting of **10** items. Each item will weigh **one (1)** mark, making a total of **10** marks. Question number 2 will be a matching-items question, consisting of **six (6)** items. Each item will carry **one (1)** mark, hence a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** essay/structured questions. Candidates will be required to answer any **two (2)** questions. Each question in this section will weigh **15** marks. Therefore, the section will weigh a total of **30** marks.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

- 5.1 Dialogue, Reading for comprehension and Writing skills (*الحوار، (القراءة والكتابة)*).
- 5.2 Nouns, Definite and Indefinite and Pronoun (*الأسماء، المعرفة والنكرة، (والضمائر)*).
- 5.3 Verbs, Types of verbs in terms of time, Present verbs in nominative accusative and imperative case (*الأفعال وأنواعها وأحوال الإعراب*).
- 5.4 Preposition, Interrogative Particles and ‘Kam’ of interrogative and Information (*أدوات الاستفهام، وأدوات الجر، وكم الاستفهامية والخبرية*).
- 5.5 Adjectives, Emphasis, Substitute and Conjunction (*النعته، والتوكيد، (والبديل، والعطف)*).
- 5.6 Meaningful sentences, nominal and verbal sentences, Invalidating particles, defective verbs and ‘La’ of categorical negation (*الجملة (المفيدة، الجملة الاسمية والفعلية، إنَّ وأخواتها، كان وأخواتها، ولا نافية للجنس)*).
- 5.7 Inflected and Uninflected words, the conditions of the Uninflected and Inflection, Signs of inflection, Indeclinable nouns, Special five nouns and Special five verbs (*المبنى والمعرب أحوال البناء والإعراب، (علامات الإعراب، الممنوع من الصرف، الأسماء الخمسة والأفعال الخمسة)*).
- 5.8 Object, Adverbs, Noun in the vocative, Mood, Absolute Object, numbers, Specification and Exception (*المفعول به، الظرف، المنادى، (الحال، المفعول المطلق، العدد، التمييز، والاستثناء)*).
- 5.9 Introduction to Morphology, First stem of a verb and Derivative stem of a verb and measures of morphology (*مقدمة الصرف، المجرد (والمزيد في الأفعال، والميزان الصرفي)*).

- 5.10 Literature (الأدب).
 5.11 Simile, Metaphor and Eloquence (التشبيه، الحقيقة والمجاز، والفصاحة).
 5.12 Selected Books – the Kingdom of Bees, the King Adel and the Children of the forest (الكتب المختارة – مملكة النحل، الملك عادل، وأطفال الغابة)

Table of Specifications for 025 Arabic Language

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight Per Topic |
|-----|------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Dialogue, Reading for Comprehension and Writing skills (الحوار، القراءة والكتابة) | | | | | | | 2 | 10.0 |
| 2. | Nouns, Definite and Indefinite and Pronoun (الأسماء، المعرفة والنكرة، والضمائر) | | | | | | | 2 | 10.0 |
| 3. | Verbs, Types of verbs in terms of time, Present verbs in nominative accusative and imperative case (الأفعال وأنواعها وأحوال الإعراب) | | | | | | | 1 | 5.0 |
| 4. | Preposition, Interrogative Particles and 'Kam' of interrogative and Information (أدوات الاستفهام، وأدوات الجر، وكم الاستفهامية والخبرية) | | | | | | | 1 | 5.0 |
| 5. | Adjectives, Emphasis, Substitute and Conjunction (النعته، والتوكيد، والبدل، والعطف) | | | | | | | 1 | 5.0 |

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight Per Topic |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 6. | Meaningful sentences, nominal and verbal sentences, Invalidating particles, defective verbs and 'La' of categorical negation (<i>الجملة المفيدة، الجملة الاسمية والفعالية، إنَّ وأخواتها، كان (وأخواتها، ولا نافية للجنس</i>) | | | | | | | 3 | 15.0 |
| 7. | Inflected and Uninflected words, the conditions of the Uninflected and Inflection, Signs of inflection, Indeclinable nouns, Special five nouns and Special five verbs (<i>المبنى والمعرب، أحوال البناء والإعراب، علامات الإعراب، الممنوع من الصرف، الأسماء الخمسة والأفعال الخمسة</i>) | | | | | | | 2 | 10.0 |
| 8. | Object, Adverbs, Noun in the vocative, Mood, Absolute Object, numbers, Specification and Exception (<i>المفعول به، الظرف، المنادى، الحال، المفعول المطلق، العدد، التمييز، والاستثناء</i>) | | | | | | | 3 | 15.0 |
| 9. | Introduction to Morphology, First stem of a verb and Derivative stem of a verb and measures of morphology (<i>مقدمة الصرف، المجرد والمزيد في الأفعال، (والميزان الصرفي</i>) | | | | | | | 1 | 5.0 |

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight Per Topic |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 10 | Literature (الأدب) | | | | | | | 1 | 5.0 |
| 11. | Simile, Metaphor and Eloquence (التشبيه، الحقيقة (والمجاز، والفصاحة | | | | | | | 1 | 5.0 |
| 12. | Selected Books – the Kingdom of Bees, the King Adel and the Children of the forest (الكتب المختارة – مملكة (النحل، الملك عادل، وأطفال الغابة | | | | | | | 2 | 10.0 |
| Total Numbers of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

026 CHINESE LANGUAGE

(For Both School and Private Candidates)

1.0 INTRODUCTION

This Chinese Language examination format for the Certificate of Secondary Education Examination (CSEE) revises and replaces the 2019 version. It is based on the 2015 Chinese Language syllabus. This revised format improves the examination rubric, without changing the examination objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 read and comprehend slightly complex texts in Chinese;
- 2.2 express themselves in both spoken and written Chinese;
- 2.3 perform a variety of writing tasks according to the required Chinese conventions;
- 2.4 use the knowledge of the Chinese Language to demonstrate awareness and consciousness of basics of society and the role they can play in its development.
- 2.5 use the knowledge of Chinese to advance academically; and
- 2.6 communicate effectively with other speakers of Chinese Language both inside and outside the country.

3.0 GENERAL COMPETENCIES

The examination will measure the candidates' ability to:

- 3.1 use appropriate Chinese to communicate in various situations and settings;
- 3.2 read and understand slightly complex texts in Chinese;
- 3.3 write a variety of slightly complex texts in Chinese;
- 3.4 read a variety of texts and relate them to real life situations; and
- 3.5 use Chinese to achieve academically in all content areas.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for **three (3)** hours. The paper will consist of **11** questions distributed in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)**

questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each item will weigh **one (1)** mark, hence a total of **10** marks. Question number 2 will be a matching-items question, consisting of **six (6)** items. Each item will carry **one (1)** mark, hence a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** composition questions. Candidates will be required to answer **two (2)** questions. Each question will weigh **15** marks. Therefore, the section will weigh a total of **30** marks.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

- 5.1 Introducing oneself and friends
- 5.2 Greeting and self-introduction/ Family introduction
- 5.3 Food/Nature
- 5.4 School/School life
- 5.5 Time/Jobs
- 5.6 Colour and size/Hobby
- 5.7 Housing/Shopping
- 5.8 Environment and health
- 5.9 Fashion and entertainment
- 5.10 Transportation/Travel and custom
- 5.11 Introduction and recommendation
- 5.12 City and environment
- 5.13 Media

Table of Specifications for 026 Chinese Language

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|--------------------------------------------------------|---------------------|------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remember | Understand | Applying | Analysing | Evaluating | Creating | | |
| 1. | Greeting and self-introduction/ Family introduction | | | | | | | 2 | 10.0 |
| 2. | Food/Nature | | | | | | | 1 | 5.0 |
| 3. | School/School life | | | | | | | 2 | 10.0 |
| 4. | Time/Jobs | | | | | | | 1 | 5.0 |
| 5. | Colour and size/Hobby | | | | | | | 1 | 5.0 |
| 6. | Introducing oneself and friends | | | | | | | 1 | 5.0 |
| 7. | Housing/Shopping | | | | | | | 2 | 10.0 |
| 8. | Environment and Health | | | | | | | 4 | 20.0 |
| 9. | Fashion and entertainment | | | | | | | 2 | 10.0 |
| 10. | Transportation/Travel and custom | | | | | | | 2 | 10.0 |
| 11. | Introduction and recommendation | | | | | | | 1 | 5.0 |
| 12. | City and environment | | | | | | | 1 | 5.0 |
| 13. | Media | | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

031 PHYSICS

(For Both School and Private Candidates)

1.0 INTRODUCTION

This Physics examination format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2010 Physics syllabus for Ordinary Secondary Education. This format revises the examination rubric, without changing the examination objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 develop knowledge on concepts, laws, theories and principles of Physics;
- 2.2 apply procedures of scientific investigation;
- 2.3 apply scientific principles in conserving and sustaining the use of the environment;
- 2.4 promote manipulative skills to manage various technological appliances; and
- 2.5 develop the language of communication in Physics.

3.0 GENERAL COMPETENCIES

The examination will assess the candidates' ability to:

- 3.1 apply Physics knowledge, principles and concepts in daily life;
- 3.2 apply scientific methods in solving problems;
- 3.3 apply technological skills in conservation and sustainable use of the environment;
- 3.4 manage simple technological appliances; and
- 3.5 use the language of Physics in communication.

4.0 EXAMINATION RUBRIC

The examination will consist of two papers: 031/1 Physics 1, a theory paper, and 031/2 Physics 2, a practical paper.

4.1 031/1 Physics 1

This paper will be for **three (3)** hours. The paper will have **11** questions distributed in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each item will weigh **one (1)** mark, hence a total of **10** marks. Question number 2 will be a matching-items question, consisting of **six (6)** items. Each item will weigh **one (1)** mark, hence a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** structured questions. Candidates will be required to answer **two (2)** questions. Each question will weigh **15** marks. Therefore, the section will weigh a total of **30** marks.

4.2 031/2 Physics 2

This paper will be Actual Practical of **2½** hours. The paper will consist of **two (2)** questions. Candidates will be required to answer **all** the questions. Each question will carry **25** marks, making a total of **50** marks.

Note

- (i) The Actual Practical paper will have more than one alternative, which will be sent to schools depending on the number of candidates. Alternative A will be sent to schools with up to 100 candidates; alternative A and B to those with more than 100 candidates but not exceeding

200; and alternative A, B and C to schools with more than 200 candidates.

- (ii) A checklist for apparatuses, equipment and materials required for the examination will be sent to schools at least three months before the date of sitting for this paper. However, the instructions for laboratory arrangements will be provided **3 hours** before the beginning of the examination.
- (iii) When responding to questions in both theory and practical papers, candidates will be allowed to use non-programmable calculators.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

5.1 031/1 Physics 1 (Theory)

- 5.1.1 Introduction to Physics
- 5.1.2 Introduction to laboratory practice
- 5.1.3 Measurement
- 5.1.4 Force
- 5.1.5 Archimedes' Principle and the law of flotation
- 5.1.6 Structure and properties of matter
- 5.1.7 Pressure
- 5.1.8 Work, energy and power
- 5.1.9 Light
- 5.1.10 Static electricity
- 5.1.11 Current electricity
- 5.1.12 Magnetism
- 5.1.13 Forces in equilibrium
- 5.1.14 Simple machines
- 5.1.15 Motion in a straight line
- 5.1.16 Newton's Laws of Motion
- 5.1.17 Temperature
- 5.1.18 Sustainable energy sources
- 5.1.19 Application of vectors
- 5.1.20 Friction
- 5.1.21 Optical instruments

- 5.1.22 Thermal expansion
- 5.1.23 Transfer of thermal energy
- 5.1.24 Measurement of thermal energy
- 5.1.25 Vapour and humidity
- 5.1.26 Waves
- 5.1.27 Electromagnetism
- 5.1.28 Radioactivity
- 5.1.29 Thermionic emission
- 5.1.30 Electronics
- 5.1.31 Elementary astronomy
- 5.1.32 Geophysics

5.2 031/2 Physics 2 (Actual Practical)

- 5.2.1 Mechanics
- 5.2.2 Heat
- 5.2.3 Light
- 5.2.4 Waves
- 5.2.5 Electricity

Table of Specifications for 031/1 Physics 1

| S/N | Topics | Skills to be Tested | | | | | Number of Items per Topic | Percentage Weight per Topic |
|-----|-----------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | | |
| 1. | Introduction to Physics and Introduction to laboratory practice | | | | | | 1 | 5.0 |
| 2. | Measurement | | | | | | 1 | 5.0 |
| 3. | Friction, Force and Pressure | | | | | | 1 | 5.0 |
| 4. | Archimedes' Principle and Law of Floatation | | | | | | 1 | 5.0 |
| 5. | Structure and properties of matter | | | | | | 1 | 5.0 |
| 6. | Work, Energy and Power | | | | | | 1 | 5.0 |
| 7. | Light and optical instruments | | | | | | 1 | 5.0 |
| 8. | Static electricity, current electricity and magnetism | | | | | | 1 | 5.0 |
| 9. | Forces in equilibrium | | | | | | 1 | 5.0 |
| 10. | Simple Machines | | | | | | 1 | 5.0 |
| 11. | Motion in a straight line and Newton's Laws of Motion | | | | | | 1 | 5.0 |
| 12. | Temperature and sustainable energy sources | | | | | | 1 | 5.0 |
| 13. | Application of vectors and vapour and humidity | | | | | | 1 | 5.0 |
| 14. | Thermal expansion | | | | | | 1 | 5.0 |
| 15. | Transfer of Thermal Energy and Measurement of Thermal Energy | | | | | | 1 | 5.0 |
| 16. | Waves | | | | | | 1 | 5.0 |
| 17. | Thermionic emission and radioactivity | | | | | | 1 | 5.0 |

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 18. | Electronics | | | | | | | 1 | 5.0 |
| 19. | Electromagnetism | | | | | | | 1 | 5.0 |
| 20. | Elementary Astronomy and Geophysics | | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

Table of Specifications for 031/2 Physics 2

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-----------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Mechanics | | | | | | | 1 | 50 |
| 2. | Heat, light, electricity or waves | | | | | | | 1 | 50 |
| Total Number of Items | | | | | | | | 2 | |
| Total Percentage Weight | | | | | | | | | 100 |

032 CHEMISTRY

(For Both School and Private Candidates)

1.0 INTRODUCTION

This Chemistry examination format revises and replaces the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2007 Chemistry syllabus for Ordinary Secondary Education. The revised format improves the examination rubric, without changing the examination objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 apply Chemistry knowledge, skills and principles in everyday life activities;
- 2.2 design and perform experiments;
- 2.3 use symbols, formulae and equations to communicate in chemistry; and
- 2.4 apply the scientific principles and knowledge in exploiting natural resources with conservation of the environment.

3.0 GENERAL COMPETENCIES

The examination will assess the candidates' ability to:

- 3.1 use Chemistry knowledge, skills and principles in solving daily life problems;
- 3.2 apply knowledge on Chemistry in doing various activities and/or experiments;
- 3.3 apply chemical symbols, formulae and equations to communicate in chemistry; and
- 3.4 use scientific and technological skills in conserving and making sustainable use of the environment.

4.0 EXAMINATION RUBRIC

The examination will consist of two papers: 032/1 Chemistry 1, a theory paper, and 032/2 Chemistry 2, a practical paper.

4.1 032/1 Chemistry 1

This paper will be for **three (3)** hours. The paper will consist of **11** questions placed in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each question will weigh **one (1)** mark, making a total of **10** marks. Question number 2 will be a matching-items question, consisting of **six (6)** items. Each item will carry **one (1)** mark, hence a total of **6** marks. Therefore, the section will have a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will comprise **three (3)** essay or structured questions each carrying **15** marks. The candidates will be required to attempt **two (2)** questions. Therefore, this section will weigh a total of **30** marks.

4.2 032/2 Chemistry 2

This paper will be for **2½** hours. The paper will consist of **two (2)** questions. The candidates will be required to answer **all** the questions. Each question will carry **25** marks, making a total of **50** marks.

Note

- (i) The Actual Practical paper will have more than one alternative, which will be sent to schools depending on the number of candidates. Alternative A will be sent to schools with up to 100 candidates; alternative A and B to those with more than 100 candidates but not exceeding

200; and alternative A, B and C to schools with more than 200 candidates.

- (ii) A checklist for chemicals, apparatuses, equipment and materials required for the examination will be sent to schools not less than three months before the date of sitting for this paper. However, the instructions for laboratory arrangements will be provided **3 hours** before the beginning of the examinations.
- (iii) When answering the questions in both theory and practical papers, candidates will be allowed to use non-programmable calculators.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

5.1 032/1 Chemistry 1 (Theory)

- 5.1.1 Introduction to Chemistry
- 5.1.2 Laboratory techniques and safety
- 5.1.3 Heat sources and flames
- 5.1.4 The scientific procedures
- 5.1.5 Matter
- 5.1.6 Air, combustion, rusting and fire fighting
- 5.1.7 Oxygen and hydrogen
- 5.1.8 Water
- 5.1.9 Fuels and energy
- 5.1.10 Atomic structure
- 5.1.11 Periodic classification
- 5.1.12 Formula, bonding and nomenclature
- 5.1.13 Chemical equations
- 5.1.14 Hardness of water
- 5.1.15 Acids, bases and salts
- 5.1.16 The mole concept and related calculations
- 5.1.17 Volumetric analysis
- 5.1.18 Ionic theory and electrolysis
- 5.1.19 Chemical kinetics, equilibrium and energetics
- 5.1.20 Extraction of metals
- 5.1.21 Compounds of metals

5.1.22 Non-metals and their compounds

5.1.23 Organic chemistry

5.1.24 Soil chemistry

5.1.25 Pollution

5.2 032/2 Chemistry 2 Actual Practical

5.2.1 Qualitative analysis

5.2.2 Chemical kinetics, equilibrium and energetics

5.2.3 Volumetric analysis

Table of Specifications for 032/1 Chemistry 1

| S/N | Topics | Skills to be Tested | | | | | Number of Items per Topic | Percentage Weight per Topic |
|-----|---------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | | |
| 1. | Introduction to Chemistry and Laboratory techniques and safety | | | | | | 1 | 5.0 |
| 2. | The scientific procedures and Periodic classification | | | | | | 1 | 5.0 |
| 3. | Matter | | | | | | 2 | 10.0 |
| 4. | Air, combustion, rusting, and fire fighting/Heat sources and flames | | | | | | 1 | 5.0 |
| 5. | Oxygen and hydrogen, water and hardness of water | | | | | | 1 | 5.0 |
| 6. | Fuels and energy | | | | | | 1 | 5.0 |
| 7. | Atomic structure | | | | | | 1 | 5.0 |
| 8. | Formula, bonding and nomenclature | | | | | | 1 | 5.0 |
| 9. | Acids, bases and salts | | | | | | 1 | 5.0 |
| 10. | Volumetric analysis, the mole concept and related calculations | | | | | | 1 | 5.0 |
| 11. | Ionic theory and electrolysis | | | | | | 1 | 5.0 |

| S/N | Topics | Skills to be Tested | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-----------------------------------------------|---------------------|---------------|----------|-----------|------------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | | |
| 12. | Chemical kinetics, equilibrium and energetics | | | | | | 1 | 5.0 |
| 13. | Chemical equations and extraction of metals | | | | | | 1 | 5.0 |
| 14. | Compounds of metals | | | | | | 1 | 5.0 |
| 15. | Non-metals and their compounds | | | | | | 2 | 10.0 |
| 16. | Organic chemistry | | | | | | 1 | 5.0 |
| 17. | Soil chemistry | | | | | | 1 | 5.0 |
| 18. | Pollution | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | 100 |

Table of Specifications for 032/2 Chemistry 2

| S/N | Topics | Skills to be Tested | | | | | Number of Items per Topic | Percentage Weight Per Topic |
|--------------------------------|---------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | | |
| 1. | Volumetric analysis | | | | | | 1 | 50 |
| 2. | Qualitative analysis /Chemical kinetics, equilibrium and energetics | | | | | | 1 | 50 |
| Total Number of Items | | | | | | | 2 | |
| Total Percentage Weight | | | | | | | | 100 |

033 BIOLOGY

(For Both School and Private Candidates)

1.0 INTRODUCTION

This Biology examination format revises and replaces the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2005 Biology syllabus for Ordinary Secondary Education reprinted in 2012. This format revises the examination rubric, without changing the examination objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 evaluate the role, influence and importance of biological science in everyday life;
- 2.2 develop capacity to improve and maintain their own health or families and the community;
- 2.3 master fundamental concepts, principles and skills of Biology, and related fields such as agriculture, medicine, pharmacy and veterinary;
- 2.4 develop necessary biological practical skills;
- 2.5 apply scientific skills and procedures in interpreting various biological data;
- 2.6 acquire basic knowledge and apply appropriate skills in combating problems related to HIV, AIDS, STIs, gender, population, environment, drug/substance abuse, sexual and reproductive health; and
- 2.7 develop the ability and desire for self-study, self-confidence and self-advancement in biological sciences and related fields.

3.0 GENERAL COMPETENCES

The examination will test the candidates' ability to:

- 3.1 use appropriate biological knowledge, concepts, skills and principles in solving various problems in daily life;

- 3.2 record, analyse and interpret data from scientific investigations using appropriate methods and technology to generate relevant information in biological science;
- 3.3 use knowledge and skills in combating health related problems such as HIV, AIDS, gender, population, environment, drug and drug abuse, sexual and reproductive health; and
- 3.4 use relevant information in biological science and related fields for self-study and lifelong-learning.

4.0 EXAMINATION RUBRIC

The examination will consist of two papers: 033/1 Biology 1, a theory paper, and 033/2 Biology 2, a practical paper.

4.1 033/1 Biology 1

This paper will be for **three (3)** hours. The paper will have sections A, B and C with a total of **11** questions. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each question will weigh **one (1)** mark, making a total of **10** marks. Question number 2 will be a matching-items question, with **six (6)** items. Each item will carry **one (1)** mark, hence a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will comprise **three (3)** essay questions each carrying **15** marks. The candidates will be required to attempt **two (2)** questions. This section will, therefore weigh a total of **30** marks.

4.2 033/2 Biology 2

This paper will be for 2½ hours. The paper will consist of **two (2)** questions. The candidates will be required to answer **all** the questions. Each question will carry **25** marks, hence a total of **50** marks.

Note

- (i) The actual practical paper will have more than one alternative paper, which will be sent to schools depending on the number of candidates. Alternative A will be sent to schools with up to **100** candidates; alternatives A and B to schools with candidates not exceeding 200; and alternatives A, B and C to schools with more than 200 candidates.

- (ii) A checklist for Biology laboratory specimens, chemicals, apparatuses, equipment and materials required for the examination will be sent to schools at least three months before the examination date for this paper. However, the instructions for the laboratory arrangements will be provided **3 hours** before the beginning of the examination.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

5.1 033/1 Biology 1 (Theory)

- 5.1.1 Introduction to Biology
- 5.1.2 Safety in our environment
- 5.1.3 Health and immunity
- 5.1.4 Cell structure and organisation
- 5.1.5 Classification of living things
- 5.1.6 Nutrition
- 5.1.7 Balance of nature
- 5.1.8 Transport of materials in living things
- 5.1.9 Gaseous exchange and respiration
- 5.1.10 Movement
- 5.1.11 Co-ordination

- 5.1.12 Excretion
- 5.1.13 Regulation
- 5.1.14 Reproduction
- 5.1.15 Growth
- 5.1.16 Genetics
- 5.1.17 Evolution
- 5.1.18 Human Immunodeficiency Virus (HIV), Acquired Immune Deficiency Syndrome (AIDS) and Sexually Transmitted Infections (STIs).

5.2 033/2 Biology 2 (Practical)

- 5.2.1 Cell structure and organisation
- 5.2.2 Nutrition
- 5.2.3 Gaseous exchange and respiration
- 5.2.4 Transport of materials in living things
- 5.2.5 Movement
- 5.2.6 Reproduction
- 5.2.7 Coordination
- 5.2.8 Classification of living things
- 5.2.9 Balance of nature

Table of Specifications for 033/1 Biology 1

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Introduction to Biology | | | | | | | 1 | 5.0 |
| 2. | Safety in our environment | | | | | | | 1 | 5.0 |
| 3. | Health and immunity/Human Immunodeficiency Virus (HIV), Acquired Immune Deficiency Syndrome (AIDS), and Sexually Transmitted Infections (STIs). | | | | | | | 2 | 10.0 |
| 4. | Cell structure and organisation/Balance of nature | | | | | | | 1 | 5.0 |
| 5. | Classification of living things | | | | | | | 1 | 5.0 |
| 6. | Nutrition | | | | | | | 1 | 5.0 |
| 7. | Transport of materials in living things | | | | | | | 1 | 5.0 |
| 8. | Gaseous exchange and respiration | | | | | | | 1 | 5.0 |
| 9. | Movement | | | | | | | 1 | 5.0 |
| 10. | Co-ordination | | | | | | | 2 | 10.0 |
| 11. | Excretion | | | | | | | 1 | 5.0 |
| 12. | Regulation | | | | | | | 1 | 5.0 |
| 13. | Reproduction | | | | | | | 2 | 10.0 |
| 14. | Growth | | | | | | | 1 | 5.0 |
| 15. | Genetics | | | | | | | 2 | 10.0 |
| 16. | Evolution | | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

Table of Specifications for 033/2 Biology 2

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Classification of living things | | | | | | | 1 | 50.0 |
| 2. | (i) Cell structure and organisation (ii) Nutrition (iii) Gaseous exchange and respiration (iv) Transport of materials in living things (v) Movement (vi) Reproduction (vii) Co-ordination (viii) Growth | | | | | | | 1 | 50.0 |
| Total Number of Items | | | | | | | | 2 | |
| Total Percentage Weight | | | | | | | | | 100 |

034 AGRICULTURE

(For Both School and Private Candidates)

1.0 INTRODUCTION

This Agriculture examination format revises the 2019 Agricultural Science version. The format is based on the 2019 Agriculture syllabus, which replaced the 1997 Agricultural Science syllabus. The improvements made in the syllabus include the omission of some topics, introduction of new topics, and shifting of some topics from one class level to another. The name of the subject in the revised syllabus has also been changed from Agricultural Science to Agriculture. Improvements in this format include the revising of the examination rubric, the content, general objectives and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 demonstrate an understanding of the concepts and principles of agricultural science and production;
- 2.2 examine the importance of self-confidence and self-advancement in agricultural science and production;
- 2.3 analyse the world in which they live through meaningful and sustainable scientific agricultural activities;
- 2.4 plan and run agricultural enterprises for income generation;
- 2.5 apply agricultural principles and practices for lifelong learning;
- 2.6 adhere to the principles of production in producing crops;
- 2.7 recognise soil properties for agricultural production and productivity;
- 2.8 adhere to the principles of efficient livestock production;
- 2.9 examine the marketing of agricultural products;
- 2.10 develop knowledge on agro-forestry for sustainable agricultural production and management of land;
- 2.11 demonstrate the basic skills of farm structures for improved productivity; and
- 2.12 manage the use of Genetically Modified Organisms (GMOs) for sustainable agricultural production.

3.0 GENERAL COMPETENCIES

The Agriculture examination will test the candidates' ability to:

- 3.1 apply agricultural knowledge and skills to overcome various agricultural challenges in daily life;
- 3.2 use relevant information on agricultural science and production for self-study and lifelong learning;
- 3.3 apply a sense of responsibility towards environmental and scientific agricultural practices for sustainable use;
- 3.4 apply skills of scientific investigation and experimentation in producing agricultural products;
- 3.5 practise an enterprising attitude, skills and knowledge in agricultural activities.
- 3.6 apply principles of crop production in producing crop products;
- 3.7 manage soil properties for appropriate agricultural production and productivity;
- 3.8 apply principles of livestock production in raising livestock;
- 3.9 apply marketing skills to market agricultural products;
- 3.10 use basic skills of agro-forestry for sustainable agricultural production;
- 3.11 apply farm structures knowledge for improving agricultural productivity; and
- 3.12 evaluate contemporary issues in agricultural production.

4.0 EXAMINATION RUBRIC

The Agriculture examination will comprise two papers: 034/1 Agriculture 1, a theory paper, and 034/2 Agriculture 2, a practical paper.

4.1 034/1 Agriculture 1

This will be a theory paper of **three (3)** hours. The paper will consist of sections A, B and C with a total of **11** questions. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each question will weigh **one (1)** mark, making a total of **10** marks. Question number 2 will be a matching question, with **six (6)**

items. Each item will carry **one (1)** mark, making a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will comprise **three (3)** essay questions each carrying **15** marks. The candidates will be required to attempt **two (2)** questions. Therefore, this section will account for a total of **30** marks.

4.2 034/2 Agriculture 2

This will be a practical paper to last for **2½** hours. The paper will consist of **two** questions, each carrying **25** marks. The candidates will be required to answer **all** the questions. The total weight for this paper will be **50** marks.

Note

- (i) A checklist for apparatuses, chemicals and specimens required for the examination will be sent to schools at least three months before the examination date for this paper. However, the instructions for the laboratory arrangements will be provided **3 hours** before the beginning of the examination.

- (ii) The use of non-programmable calculator will be allowed into the examination room.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

5.1 034/1 Agriculture 1

- 5.1.1 Introduction to Agriculture
- 5.1.2 Agricultural Development in Tanzania
- 5.1.3 Introduction to crop production
- 5.1.4 Principles of crop production
- 5.1.5 Crop husbandry

- 5.1.6 Agro-forestry
- 5.1.7 Introduction to livestock production
- 5.1.8 Principles of livestock production
- 5.1.9 Animal husbandry
- 5.1.10 Introduction to soil science
- 5.1.11 Soil productivity
- 5.1.12 Mechanisation in Agriculture
- 5.1.13 Farm structures
- 5.1.14 Factors of production
- 5.1.15 Basics of farm management
- 5.1.16 Agricultural marketing
- 5.1.17 Contemporary issues in Agriculture

5.2 034/2 Agriculture 2

- 5.1.18 Principles of crop production
- 5.1.19 Crop husbandry
- 5.1.20 Agro-Forestry
- 5.1.21 Introduction to livestock production
- 5.1.22 Principles of livestock production
- 5.1.23 Animal husbandry
- 5.1.24 Introduction to soil science
- 5.1.25 Soil productivity
- 5.1.26 Mechanisation in Agriculture
- 5.1.27 Farm structures

Table of Specifications for 034/1 Agriculture 1

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|--------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Introduction to Agriculture | | | | | | | 1 | 5.0 |
| 2. | Introduction to crop production | | | | | | | 1 | 5.0 |
| 3. | Introduction to livestock production | | | | | | | 1 | 5.0 |
| 4. | Mechanisation in agriculture | | | | | | | 1 | 5.0 |
| 5. | Introduction to soil science | | | | | | | 1 | 5.0 |
| 6. | Factors of production | | | | | | | 1 | 5.0 |
| 7. | Basics of farm management | | | | | | | 1 | 5.0 |
| 8. | Principles of crop production | | | | | | | 3 | 15.0 |
| 9. | Crop husbandry | | | | | | | 2 | 10.0 |
| 10. | Soil productivity | | | | | | | 1 | 5.0 |
| 11. | Principles of livestock production | | | | | | | 1 | 5.0 |
| 12. | Animal husbandry | | | | | | | 1 | 5.0 |
| 13. | Agricultural development in Tanzania | | | | | | | 1 | 5.0 |
| 14. | Agricultural marketing | | | | | | | 1 | 5.0 |
| 15. | Agro-forestry | | | | | | | 1 | 5.0 |
| 16. | Farm structures | | | | | | | 1 | 5.0 |
| 17. | Contemporary issues in agriculture | | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

Table of Specifications for 034/2 Agriculture 2

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Mechanization in agriculture/Introduction to soil science/Soil productivity/Farm structures | | | | | | | 1 | 50.0 |
| 2. | Introduction to livestock production/Principles of crop production/ Crop husbandry/Principles of livestock production/Animal husbandry/ Agro-forestry | | | | | | | 1 | 50.0 |
| Total Number of Items | | | | | | | | 2 | |
| Total Percentage Weight | | | | | | | | | 100 |

035 ENGINEERING SCIENCE
(For Both School and Private Candidates)

1.0 INTRODUCTION

This Engineering Science examination format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2019 Engineering Science syllabus for Technical Secondary Schools. Improvements in the syllabus include adding new topics and removing some content. As a result, this revised format improves the examination rubric, the content, general objectives and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which candidates can:

- 2.1 apply knowledge, laws, theories and principles of Engineering Science in real life;
- 2.2 use concepts of motion in driving machines;
- 2.3 apply engineering principles to produce different items required by the society;
- 2.4 use acquired skills to repair different instruments;
- 2.5 apply principles of thermal energy in measurement of heat effect in different substances; and
- 2.6 generate magnetism and electricity necessary in engineering operations.

3.0 GENERAL COMPETENCIES

The examination will assess the candidates' ability to:

- 3.1 apply knowledge and skills of measurements in day-to-day activities;
- 3.2 apply concepts of motion in driving machines;
- 3.3 determine classes of simple machines used in daily activities;
- 3.4 apply engineering principles to produce items required by the society;
- 3.5 utilise the skills acquired to repair different instruments used in day-to-day activities;

- 3.6 deploy principles of thermal energy in measurement of heat effect in different substances;
- 3.7 maintain simple analogue and digital devices; and
- 3.8 generate magnetism and electricity necessary in engineering operations.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for **three 3** hours. The paper will consist of sections A, B and C with a total of **11** questions. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each item will weigh **one (1)** mark, hence a total of **10** marks. Question number 2 will be a matching-items question, with **six (6)** items. Each item will carry **one (1)** mark, making a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will comprise **three (3)** structured questions, each carrying **15** marks. The candidates will be required to answer **two (2)** questions. Therefore, this section will weigh a total of **30** marks.

Note: When responding to the questions, candidates will be allowed to use non-programmable calculators.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

- 5.1 Introduction to Engineering Science
- 5.2 Measurements
- 5.3 Measuring instruments
- 5.4 Forces
- 5.5 Properties of matter

- 5.6 Linear motion
- 5.7 Work, energy and power
- 5.8 Friction
- 5.9 Turning forces
- 5.10 Simple machines
- 5.11 Fluid mechanics
- 5.12 Heat
- 5.13 Angular motion
- 5.14 Periodic motion
- 5.15 Projectile motion
- 5.16 Strength of materials
- 5.17 Light (Optics)
- 5.18 Sound waves
- 5.19 Electricity and magnetism
- 5.20 Basic electronics
- 5.21 Solar energy

Table of Specifications for 035 Engineering Science

| S/N | Topic | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-----------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Introduction to Engineering Science, Measurements and Measuring Instruments | | | | | | | 1 | 5.0 |
| 2. | Forces and friction force | | | | | | | 1 | 5.0 |
| 3. | Properties of matter | | | | | | | 1 | 5.0 |
| 4. | Linear motion | | | | | | | 1 | 5.0 |
| 5. | Work, energy and power | | | | | | | 1 | 5.0 |
| 6. | Turning forces | | | | | | | 1 | 5.0 |
| 7. | Simple machines | | | | | | | 1 | 5.0 |
| 8. | Heat | | | | | | | 1 | 5.0 |
| 9. | Fluid mechanics | | | | | | | 1 | 5.0 |
| 10. | Angular motion | | | | | | | 1 | 5.0 |
| 11. | Periodic motion | | | | | | | 1 | 5.0 |
| 12. | Projectile motion | | | | | | | 1 | 5.0 |
| 13. | Strength of materials | | | | | | | 1 | 5.0 |
| 14. | Light (Optics) | | | | | | | 2 | 10.0 |
| 15. | Sound waves | | | | | | | 1 | 5.0 |
| 16. | Electricity and magnetism | | | | | | | 2 | 10.0 |
| 17. | Basic electronics | | | | | | | 1 | 5.0 |
| 18. | Solar energy | | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

036 INFORMATION AND COMPUTER STUDIES

(For Both School and Private Candidates)

1.0 INTRODUCTION

This Information and Computer Studies examination format revises and replaces the 2019 version, which was issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2005 Computer Studies syllabus for Ordinary Level of Secondary Education. This revised format improves the examination rubric without changing the examination objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 demonstrate skills in data processing and interpretation of information;
- 2.2 develop awareness on information technology in the society;
- 2.3 apply information technology knowledge and skills in daily life;
- 2.4 develop practical skills in the use of computers;
- 2.5 analyse the role of information technology in socio-economic and cultural development of the society; and
- 2.6 apply the knowledge of computer networks to access information and security issues in a networked environment.

3.0 GENERAL COMPETENCIES

The examination will assess the candidates' ability to:

- 3.1 organise and present information in a variety of forms;
- 3.2 identify the types and parts of computer and their uses;
- 3.3 use information and communication technologies in data and information processing;
- 3.4 create relevant documents and publications using software application packages;
- 3.5 interpret various forms of information;

- 3.6 apply principles, knowledge and skills of information technology in daily life;
- 3.7 keep up-to-date with current developments and issues related to everyday use of the computer; and
- 3.8 use different types of networks to access information.

4.0 EXAMINATION RUBRIC

The Information and Computer Studies examination will comprise two papers: 036/1 Information and Computer Studies 1, a theory paper, and 036/2 Information and Computer Studies 2, a practical paper.

4.1 036/1 Information and Computer Studies 1

This will be a **three (3)** hour theory paper. The paper will consist of sections A, B and C with a total of **11** questions. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each question will weigh **one (1)** mark, making a total of **10** marks. Question number 2 will be a matching question, consisting of **six (6)** items. Each item will carry **one (1)** mark, making a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will comprise **three (3)** essay questions, each carrying **15** marks. The candidates will be required to answer **two (2)** questions. Therefore, this section will weigh a total of **30** marks.

4.2 036/2 Information and Computer Studies 2

This practical paper will have **three (3)** questions. Each question will carry **25** marks. The candidate will be required to answer **two (2)** questions. The total marks for this paper will be **50**.

Note

- (a) A checklist for hardware, software and tools required for the examination will be sent to examination centres at least three months before the date of sitting for the practical paper. However, there will be **no 3 hours' advance instruction** for this paper.
- (b) Softcopies of all the candidates' practical works should be saved on three (3) different CDs using the candidates' Examination Numbers. The hard copies/printouts should be attached to their booklet covers. Both soft and hard copies should be submitted to the National Examinations Council of Tanzania (NECTA).

5.0 EXAMINATION CONTENT

The examination questions for both 036/1 Information and Computer Studies 1 and 036/2 Information and Computer Studies 2 will be based on the following topics:

5.1 036/1 Information and Computer Studies 1

- 5.1.1 Information
- 5.1.2 The computer
- 5.1.3 Computer software
- 5.1.4 Computer handling
- 5.1.5 Computer evolution
- 5.1.6 Word processing
- 5.1.7 Spreadsheet

- 5.1.8 Computer networks and communication
- 5.1.9 The internet
- 5.1.10 Impact of ICT on the society
- 5.1.11 Web development
- 5.1.12 Presentation
- 5.1.13 Database as information systems
- 5.1.14 Desktop publishing
- 5.1.15 Multimedia
- 5.1.16 Management of database information systems

5.2 036/2 Information and Computer Studies 2

- 5.2.1 Word processing
- 5.2.2 Spreadsheet
- 5.2.3 Web development
- 5.2.4 Presentation
- 5.2.5 Management of database information systems
- 5.2.6 Desktop publishing

Table of Specifications for 036/1 Information and Computer Studies 1

| S/N | Themes/Topic | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Information | | | | | | | 1 | 5.0 |
| 2. | The computer | | | | | | | 1 | 5.0 |
| 3. | Computer software | | | | | | | 1 | 5.0 |
| 4. | Computer handling | | | | | | | 1 | 5.0 |
| 5. | Computer evolution | | | | | | | 1 | 5.0 |
| 6. | Word processing | | | | | | | 1 | 5.0 |
| 7. | Spreadsheet | | | | | | | 2 | 10.0 |
| 8. | Computer networks and communication | | | | | | | 1 | 5.0 |
| 9. | Internet | | | | | | | 1 | 5.0 |
| 10. | Impact of ICT on society | | | | | | | 1 | 5.0 |
| 11. | Web development | | | | | | | 2 | 10.0 |
| 12. | Presentation | | | | | | | 1 | 5.0 |
| 13. | Database as information systems | | | | | | | 1 | 5.0 |
| 14. | Management of database and information systems | | | | | | | 1 | 5.0 |
| 15. | Desktop publishing | | | | | | | 1 | 5.0 |
| 16. | Multimedia | | | | | | | 2 | 10.0 |
| 17. | Management of database information systems | | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

Table of Specifications for 036/1 Information and Computer Studies 2

| S/N | Themes/Topics | Skills to be Tested | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|----------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | | |
| 1. | Word processing/ Spreadsheet | | | | | | 1 | 33 |
| 2. | Web development/ Presentation | | | | | | 1 | 33 |
| 3. | Management of database information systems/ Desktop publishing | | | | | | 1 | 34 |
| Total Number of Items | | | | | | | 3 | |
| Total Percentage Weight | | | | | | | | 100 |

041 BASIC MATHEMATICS
(For Both School and Private Candidates)

1.0 INTRODUCTION

This Basic Mathematics examination format is based on the 2019 format issued by the National Examinations Council of Tanzania (NECTA). It is also based on the 2005 Basic Mathematics syllabus for Ordinary Secondary Education. There is no change in the examination rubric, objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will test the extent to which candidates can:

- 2.1 solve practical mathematical problems in daily life;
- 2.2 apply mathematical concepts in interpreting situations;
and
- 2.3 use mathematical knowledge and techniques in studying mathematics and related subjects.

3.0 GENERAL COMPETENCIES

The examination will test the candidates' ability to:

- 3.1 think critically and logically in interpreting and solving practical mathematical-related problems;
- 3.2 use mathematical concepts to explain and clarify mathematical related problems; and
- 3.3 apply mathematical knowledge and techniques in other fields.

4.0 EXAMINATION RUBRIC

There will be **one (1) three (3) hour** paper. The paper will consist of sections A and B with a total of **14** questions. The candidates will be required to answer **all** the questions, which will weigh **100** marks.

Section A will consist of **ten (10)** short answer questions, each carrying **six (6)** marks. The section will weigh a total of **60** marks.

Section B will consist of **four (4)** structured questions, each carrying **ten (10)** marks. The section will weigh **40** marks.

Note

The candidate will be allowed to use mathematical tables published by the National Examinations Council of Tanzania, and non-programmable calculators.

5.0 EXAMINATION CONTENT

The examination will be set from the following topics:

- 5.1 Numbers
- 5.2 Fractions
- 5.3 Decimals and percentages
- 5.4 Approximations
- 5.5 Exponents and radicals
- 5.6 Logarithms
- 5.7 Algebra
- 5.8 Sets
- 5.9 Co-ordinate geometry
- 5.10 Vectors
- 5.11 Geometry
- 5.12 Perimeters and areas
- 5.13 Congruence
- 5.14 Similarity
- 5.15 Units
- 5.16 Rates and variations
- 5.17 Ratios, profit and loss
- 5.18 Sequences and series
- 5.19 Trigonometry
- 5.20 Pythagoras theorem
- 5.21 Quadratic equations
- 5.22 Linear programming
- 5.23 Statistics
- 5.24 Three dimensional figures
- 5.25 Circles
- 5.26 The Earth as a sphere
- 5.27 Accounts

- 5.28 Matrices and transformations
- 5.29 Probability
- 5.30 Relations
- 5.31 Functions

Table of Specifications for 041 Basic Mathematics

| S/N | Topic | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Numbers/Fractions, Decimals and percentages/ Approximations | | | | | | | 1 | 7.14 |
| 2. | Exponents/Radicals/Logarithms | | | | | | | 1 | 7.14 |
| 3. | Sets/Probability | | | | | | | 1 | 7.14 |
| 4. | Co-ordinate geometry/Vectors | | | | | | | 1 | 7.14 |
| 5. | Geometry/Perimeters and areas/Congruence and similarity | | | | | | | 1 | 7.14 |
| 6. | Units/Rates and variation | | | | | | | 1 | 7.14 |
| 7. | Ratios, profit and loss/Accounts | | | | | | | 1 | 7.14 |
| 8. | Sequences and series | | | | | | | 1 | 7.14 |
| 9. | Trigonometry and Pythagoras theorem | | | | | | | 1 | 7.14 |
| 10. | Algebra/Quadratic equations | | | | | | | 1 | 7.14 |
| 11. | Statistics/Circles | | | | | | | 1 | 7.14 |
| 12. | Three dimensional figures/The Earth as a sphere | | | | | | | 1 | 7.14 |
| 13. | Matrices and transformations | | | | | | | 1 | 7.14 |
| 14. | Linear Programming /Functions/Relations | | | | | | | 1 | 7.14 |
| Total Number of Items | | | | | | | | 14 | |
| Total Percentage Weight | | | | | | | | | 100 |

042 ADDITIONAL MATHEMATICS

(For Both School and Private Candidates)

1.0 INTRODUCTION

The Additional Mathematics examination format is based on the 2019 version issued by the National Examinations Council of Tanzania (NECTA). It is also based on the 2010 Additional Mathematics Syllabus for Secondary Schools. There is no change in the examination rubric, objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will test the extent to which candidates can:

- 2.1 think logically and discover mathematical concepts;
- 2.2 demonstrate skills in solving practical problems; and
- 2.3 apply mathematical knowledge and skills in other fields.

3.0 GENERAL COMPETENCIES

The examination will test the candidates' ability to:

- 3.1 think critically and logically in interpreting and solving problems;
- 3.2 apply the language of Mathematics in explaining and clarifying mathematical ideas; and
- 3.3 apply mathematical knowledge and techniques in other fields;

4.0 EXAMINATION RUBRIC

There will be **one (1) three (3)** hour paper. The paper will consist of sections A and B with a total of **14** questions. The candidates will be required to answer **all** the questions weighing a total of **100** marks.

Section A will consist of **10** short answer questions, each carrying **six (6)** marks. The section will weigh **60** marks.

Section B will consist of **four (4)** structured answer questions, each carrying **10** marks. The section will weigh **40** marks.

Note

During responding to questions in this paper, the candidates will be allowed to use Mathematical tables published by the National Examinations Council of Tanzania, and non-programmable calculators.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

- 5.1 Numbers
- 5.2 Sets
- 5.3 Equations and remainder theorem
- 5.4 Functions
- 5.5 Algebra
- 5.6 Symmetry
- 5.7 Geometrical constructions
- 5.8 Variations
- 5.9 Differentiation
- 5.10 Integration
- 5.11 Trigonometry
- 5.12 Locus
- 5.13 Plan and elevations
- 5.14 Co-ordinate geometry
- 5.15 Statistics
- 5.16 Logic
- 5.17 Permutations and combinations
- 5.18 Probability
- 5.19 Vectors
- 5.20 Matrices and linear transformations

Table of Specifications for 042 Additional Mathematics

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Variations | | | | | | | 1 | 7.14 |
| 2. | Statistics | | | | | | | 1 | 7.14 |
| 3. | Co-ordinate geometry | | | | | | | 1 | 7.14 |
| 4. | Locus | | | | | | | 1 | 7.14 |
| 5. | Algebra | | | | | | | 1 | 7.14 |
| 6. | Symmetry/Plan and elevations/Geometrical construction | | | | | | | 1 | 7.14 |
| 7. | Trigonometry | | | | | | | 1 | 7.14 |
| 8. | Numbers | | | | | | | 1 | 7.14 |
| 9. | Logic | | | | | | | 1 | 7.14 |
| 10. | Sets | | | | | | | 1 | 7.14 |
| 11. | Functions/Equations and remainder theorem | | | | | | | 1 | 7.14 |
| 12. | Differentiation/Integration | | | | | | | 1 | 7.14 |
| 13. | Probability/Permutations and combinations | | | | | | | 1 | 7.14 |
| 14. | Vectors/Matrices and linear transformations | | | | | | | 1 | 7.14 |
| Total Number of Items | | | | | | | | 14 | |
| Total Percentage Weight | | | | | | | | | 100 |

051 FOOD AND HUMAN NUTRITION

(For Both School and Private Candidates)

1.0 INTRODUCTION

This Food and Human Nutrition examination format revises and replaces the 2019 version issued by the National Examinations Council of Tanzania (NECTA). This format is based on the 2019 Home Economics Ordinary Secondary Education syllabus. The revision accommodates the improvements made in the Home Economics syllabus of 2019 such as changing the subject name from Food and Nutrition to Food and Human Nutrition, combining related topics and removing some topics/sub-topics. Due to the improvements made in the syllabus, there is also an improvement in the examination objectives, content, competencies and rubric.

2.0 GENERAL OBJECTIVES

The examination will test the extent to which candidates can:

- 2.1 demonstrate skills in kitchen planning, kitchen hygiene and the use as well as care of various kitchen equipment;
- 2.2 demonstrate food cooking skills using various methods;
- 2.3 understand the concepts of food and food nutrients, their importance in the body and effect of heat on various food nutrients;
- 2.4 recognise the nutritional needs in the context of the selection, preparation, cooking, serving and preserving food using various approaches;
- 2.5 analyse ways of generating and managing income through catering activities.

3.0 GENERAL COMPETENCIES

The examination will specifically test candidates' ability to:

- 3.1 apply skills of kitchen planning and food hygiene to meet ergonomic and health aspects;
- 3.2 demonstrate the knowledge of food and human nutrition in planning and preparing family meals using various methods of cooking;

- 3.3 analyse food processing and preservation methods while considering aspects of versatility, desirability and social values;
- 3.4 plan, prepare, cook and serve balanced meals for the family; and
- 3.5 demonstrate the skills of generating and managing catering activities.

4.0 EXAMINATION RUBRIC

There will be two examination papers: 051/1 Food and Human Nutrition 1 (Theory Paper) and 051/2 Food and Human Nutrition 2 (Practical Paper).

4.1 051/1 Food and Human Nutrition 1

This theory paper will be administered for **three (3)** hours. The paper will consist of sections A, B and C with a total of **11** questions. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each question will weigh **one (1)** mark, hence a total of **10** marks. Question number 2 will be a matching-items question, with **six (6)** items. Each item will carry **one (1)** mark, making a total of **6** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will comprise **three (3)** essay questions each carrying **15** marks. The candidates will be required to attempt **two (2)** questions. Therefore, this section will weigh a total of **30** marks.

4.2 051/2 Food and Human Nutrition 2

This paper will be divided into two sessions: **A planning session** and **a practical session**. The planning session will be on the first day as indicated on the main timetable and the practical examination session will start three days thereafter. The paper will comprise **3** questions. Candidates will be required to answer only **one (1)** question, which will carry **100** marks.

4.2.1 Planning session

This will be an open book examination and will be for **1½** hours. As such, candidates will be allowed to use recipe books. Each candidate will select one question via a secret ballot drawing. Thereafter, the candidate will read and answer the question by writing down the choice of the dishes, time plan (order of work) and shopping list. The candidates will have an opportunity to choose dishes based on the requirements of the question.

4.2.2 Practical session

The practical session will be for **2½ hours**. In the practical session, the candidate will be required to demonstrate what has been planned and he/she will be assessed based on the criteria using the following Table as a guide:

| SN | Items | Marks |
|--------------|------------------------|--------------|
| 1. | Choice of dishes | 10 |
| 2. | Order of work | 05 |
| 3. | Shopping list | 05 |
| 4. | Skill | 35 |
| 5. | Quality | 30 |
| 6. | Cleanliness | 05 |
| 7. | General impression | 05 |
| 8. | Serving and appearance | 05 |
| Total | | 100 |

Note: The Handbook for Supervision and Marking the Food and Human Nutrition practical examination will be sent to schools during supervision of National Examinations.

5.0 EXAMINATION CONTENT

The examination will be set from the following topics:

5.1 051/1 Food and Human Nutrition 1

- 5.1.1 The Kitchen
- 5.1.2 Food and Nutrition
- 5.1.3 Cooking food
- 5.1.4 Malnutrition
- 5.1.5 Food contamination
- 5.1.6 Cereals, pulses and nuts
- 5.1.7 Raising agents
- 5.1.8 Vegetables and fruits
- 5.1.9 Meat and fish
- 5.1.10 Eggs, milk and milk products
- 5.1.11 Meal planning
- 5.1.12 Catering

5.2 051/2 Food and Human Nutrition 2

- 5.2.1 The Kitchen
- 5.2.2 Cooking food
- 5.2.3 Malnutrition
- 5.2.4 Cereals, pulses and nuts
- 5.2.5 Raising agents
- 5.2.6 Vegetables and fruits
- 5.2.7 Meat and fish
- 5.2.8 Eggs, milk and milk products
- 5.2.9 Meal planning

Table of Specifications for 051/1 Food and Human Nutrition 1

| SN | Topics | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|------------------------------|--------------------|----------------------|-----------------|------------------|-------------------|-----------------|----------------------------------|------------------------------------|
| 1. | The Kitchen | | | | | | | 1 | 5.0 |
| 2. | Food and Nutrition | | | | | | | 1 | 5.0 |
| 3. | Cooking Food | | | | | | | 1 | 5.0 |
| 4. | Malnutrition | | | | | | | 2 | 10 |
| 5. | Food contamination | | | | | | | 1 | 5.0 |
| 6. | Cereals, pulses and nuts | | | | | | | 2 | 10.0 |
| 7. | Raising agents | | | | | | | 2 | 10.0 |
| 8. | Vegetables and fruits | | | | | | | 2 | 10.0 |
| 9. | Meat and Fish | | | | | | | 2 | 10.0 |
| 10. | Eggs, milk and milk products | | | | | | | 2 | 10.0 |
| 11. | Meal planning | | | | | | | 2 | 10.0 |
| 12. | Catering | | | | | | | 2 | 10.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

Table of Specification for 051/2 Food and Human Nutrition 2

| S/N | Topics | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|----------------------------------------------------------------------------------|-------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| 1. | The Kitchen/ Cooking food/ Meal planning | | | | | | | 1 | 33.3 |
| 2. | Malnutrition/ Vegetables and fruits/ Meat and fish/ Eggs, milk and milk products | | | | | | | 1 | 33.4 |
| 3. | Cereals, pulses and nuts/ Raising agents | | | | | | | 1 | 33.3 |
| Total Number of Items | | | | | | | | 3 | 100 |
| Total Percentage Weight | | | | | | | | | |

052 TEXTILES AND GARMENT CONSTRUCTION

(For Both School and Private Candidates)

1.0 INTRODUCTION

The Textiles and Garment Construction examination format revises and replaces the 2019 version issued by the National Examinations Council of Tanzania (NECTA). This format is based on the Home Economics Ordinary Secondary Education syllabus of 2019. The revised format accommodates improvements made in the revised Home Economics syllabus, which include the change of the subject's name from Textiles and Dressmaking to Textiles and Garment Construction, combining related topics and removing of some topics/sub-topics. Due to the improvements made in the syllabus, there is also an improvement in the examination objectives, content, competencies and rubric.

2.0 GENERAL OBJECTIVES

The examination intends to assess the extent at which the candidates can:

- 2.1 analyse the choice, use and care of sewing equipment and fabrics;
- 2.2 apply garment process skills in constructing a garment;
- 2.3 show knowledge of designs, design, draft and use patterns when making a garment;
- 2.4 elaborate on manufacturing processes of fabrics, care and use of various types of fabrics; and
- 2.5 analyse various ways of generating and managing income through tailoring activities.

3.0 GENERAL COMPETENCIES

The examination will assess the candidates' ability to:

- 3.1 show an understanding of the principles underlying the choice, use and care of sewing machine and sewing tools;
- 3.2 demonstrate skills of designing, drafting and using patterns when making a garment;
- 3.3 apply the knowledge of garment making processes suitable for making various types of garments;

- 3.4 sew a garment using correct garment making processes and procedures;
- 3.5 show an understanding of manufacturing processes of fabrics, care and use of various types of fabrics; and
- 3.6 demonstrate an understanding on the ways of generating and managing income through tailoring activities.

4.0 EXAMINATION RUBRIC

There will be two examination papers: 052/1 Textiles and Garment Construction 1 (Theory Paper), and 052/2 Textiles and Garment Construction 2 (Practical Paper).

4.1 052/1 Textiles and Garment Construction 1

This theory paper will be for **three (3) hours**. The paper will consist of sections A, B and C with a total of **11** questions. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will carry a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each item will carry **one (1)** mark, hence a total of **10** marks. Question number 2 will be a matching-items question, with **six (6)** items. Each item will carry **one (1)** mark, hence a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will comprise **three (3)** structured questions, each carrying **15** marks. The candidates will be required to attempt **two (2)** questions. Therefore, this section will weigh a total of **30** marks.

4.2 052/2 Textiles and Garment Construction 2

The practical paper will have two components: A practical examination and coursework.

4.2.1 Practical Examination

This paper will be for **three (3)** hours. It will have **one (1)** question accounting for **75** marks.

Note

There will be a **checklist** for sewing equipment, fabrics, fastenings and trimmings required for the examination, which will be sent to schools at least three months before the date of sitting for this paper. Moreover, the instructions for room arrangements will be provided **3 hours** before the beginning of the examination.

4.2.2 Coursework

The coursework will be based on the practical activities in Form III and Form IV. Candidates will be required to make the following articles:

- (a) A child garment or his/her garment, i.e., dress or blouse and skirt or a shirt and short/trouser.
- (b) A portfolio to include samples of garment making processes such as samples of seams, disposal of fullness, openings and fastenings, collars, sleeves, pockets and edge finishing.

The coursework articles will account for **25** marks distributed as in the following Table:

Distribution of Marks for the Coursework

| SN. | Skills | Marks |
|--------------|-----------------------------------|-----------|
| 1. | A child dress or Personal garment | 8 |
| | (i) Details on the wrong side | 7 |
| | (ii) Details on the right side | |
| 2. | A students' Portfolio | 10 |
| Total | | 25 |

The garment and portfolio should be displayed and marked during the Food and Human Nutrition practical examination.

5.0 EXAMINATION CONTENT

The examination will be set based on the following topics:

5.1 052/1 Textiles and Garment Construction 1

- 5.1.1 Introduction to sewing
- 5.1.2 Basic sewing stitches
- 5.1.3 Seams
- 5.1.4 Methods of controlling fullness
- 5.1.5 Opening and fastenings
- 5.1.6 Edge finishing
- 5.1.7 Collars
- 5.1.8 Pockets
- 5.1.9 Sleeves
- 5.1.10 Choice of fabrics
- 5.1.11 Making a garment
- 5.1.12 Introduction to Textile
- 5.1.13 Economics in Textile

5.2 052/2 Textiles and Garment Construction 2

- 5.2.1 Basic sewing stitches
- 5.2.2 Methods of controlling fullness
- 5.2.3 Seams
- 5.2.4 Sleeves
- 5.2.5 Collars
- 5.2.6 Edge finishing
- 5.2.7 Openings
- 5.2.8 Fastenings
- 5.2.9 Pockets
- 5.2.10 Making the garments

Table of Specifications for 052/1 Textiles and Garment Construction 1

| S/N | Topic/Sub-topic | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|---------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Introduction to sewing | | | | | | | 1 | 5.0 |
| 2. | Basic sewing stitches | | | | | | | 2 | 10.0 |
| 3. | Seams | | | | | | | 2 | 10.0 |
| 4. | Methods of controlling fullness | | | | | | | 2 | 10.0 |
| 5. | Opening and fastenings | | | | | | | 2 | 10.0 |
| 6. | Edge finishing | | | | | | | 1 | 5.0 |
| 7. | Collars | | | | | | | 1 | 5.0 |
| 8. | Pockets | | | | | | | 1 | 5.0 |
| 9. | Sleeves | | | | | | | 1 | 5.0 |
| 10. | Choice of fabrics | | | | | | | 1 | 5.0 |
| 11. | Making a garment | | | | | | | 2 | 10.0 |
| 12. | Introduction to Textiles | | | | | | | 3 | 15.0 |
| 13. | Economics in Textiles | | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

Table of Specifications for 052/2 Textiles and Garment Construction 2

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Garment making: Seams, Methods of Controlling Fullness, Opening and Fastenings, Edge Finishing, Collars, Pockets and Sleeves | | | | | | | 1 | 100 |
| Total Number of Items | | | | | | | | 1 | |
| Total Percentage Weight | | | | | | | | | 100 |

061 COMMERCE

(For Both School and Private Candidates)

1.0 INTRODUCTION

This examination format revises and replaces the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2016 Commerce Syllabus for Ordinary Secondary Education. The revised format improves the examination rubric, without changing the examination objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 use personal social values and skills in dealing with commercial issues;
- 2.2 interpret commercial issues using government and non-government policies;
- 2.3 describe the role of various organisations in commerce;
- 2.4 use entrepreneurial skills in dealing with commercial issues; and
- 2.5 apply basic leadership, managerial skills and principles while working with others to achieve business goals.

3.0 GENERAL COMPETENCIES

The examination will test the candidates' ability to demonstrate their competencies in:

- 3.1 the application of entrepreneurial skills in day to-day-life;
- 3.2 providing supportive arguments during trading and dialogue;
- 3.3 negotiating in business transactions;
- 3.4 financial literacy and management risks; and
- 3.5 demonstrating self-confidence and self-reliance attributes.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for **three (3)** hours. The paper will consist of **11** questions in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will account for all **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each item will weigh **one (1)** mark, hence a total of **10** marks. Question number 2 will be a matching-items question, with **six (6)** items. Each item will carry **one (1)** mark, making a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** essay questions. Candidates will be required to answer any **two (2)** questions. Each question in this section will weigh **15** marks. Therefore, the section will weigh a total of **30** marks.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

- 5.1 Commerce basics
- 5.2 Production
- 5.3 Entrepreneurship
- 5.4 Domestic trade
- 5.5 Warehousing management
- 5.6 Economics basics
- 5.7 Transportation
- 5.8 Business communication
- 5.9 Marketing
- 5.10 Finance
- 5.11 International trade
- 5.12 Taxation
- 5.13 Insurance
- 5.14 Business units
- 5.15 Business management

Table of Specifications for 061 Commerce

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Commerce basics | | | | | | | 1 | 5.0 |
| 2. | Production | | | | | | | 2 | 10.0 |
| 3. | Entrepreneurship | | | | | | | 4 | 20.0 |
| 4. | Domestic trade | | | | | | | 1 | 5.0 |
| 5. | Warehousing management | | | | | | | 1 | 5.0 |
| 6. | Economic basics | | | | | | | 1 | 5.0 |
| 7. | Transportation | | | | | | | 1 | 5.0 |
| 8. | Business communication | | | | | | | 1 | 5.0 |
| 9. | Marketing | | | | | | | 1 | 5.0 |
| 10. | Finance | | | | | | | 1 | 5.0 |
| 11. | International trade | | | | | | | 1 | 5.0 |
| 12. | Taxation | | | | | | | 2 | 10.0 |
| 13. | Insurance | | | | | | | 1 | 5.0 |
| 14. | Business units | | | | | | | 1 | 5.0 |
| 15. | Business management | | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

062 BOOK KEEPING

(For Both School and Private Candidates)

1.0 INTRODUCTION

This examination format revises the version issued by the National Examinations Council of Tanzania (NECTA) in 2019. This format is based on the Book Keeping Syllabus for Ordinary Secondary Schools of 2016. The format improves the examination rubric, without changing the examination objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 distinguish various book keeping systems pertaining to financial matters and records;
- 2.2 prepare and maintain accounting records of various business organisations;
- 2.3 apply the business concepts and principles in business activities;
- 2.4 use figures in business communications, analysis and decision-making;
- 2.5 apply problem solving and computational skills in business activities;
- 2.6 demonstrate awareness and recognition of the consequences of accounting errors;
- 2.7 appreciate and use financial statements as a means of business communication; and
- 2.8 ascertain the results of business operations and financial position for a given time.

3.0 GENERAL COMPETENCIES

The examination will assess the candidates' ability to:

- 3.1 manage financial affairs in a responsible and effective manner in their lives, community and economic development;
- 3.2 perform business calculations;
- 3.3 apply the accounting concepts and principles in business activities;

- 3.4 use appropriate technology when dealing with financial matters;
- 3.5 demonstrate integrity and ethics in dealing with financial matters;
- 3.6 present financial information effectively using Generally Accepted Accounting Principles (GAAPs);
- 3.7 prepare accounting records of various business organisations;
- 3.8 demonstrate an understanding of the business concept and principles;
- 3.9 demonstrate awareness and recognition of the consequences of accounting errors;
- 3.10 use figures in business communications, analysis, and decision-making; and
- 3.11 distinguish various Bookkeeping systems concerning financial matters and records.

4.0 EXAMINATION RUBRIC

There will be one paper to be administered for **three (3)** hours. The paper will consist of sections A, B and C with a total of **nine (9)** questions. The candidates will be required to answer **all** the questions in sections A, B and C. The paper will account for **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each item will carry **1** mark, making a total of **10** marks. Question number 2 will be a matching-items question, with **five (5)** items. Each item will weigh **one (1)** mark, making a total of **(5)** marks. Therefore, the section will weigh a total of **15** marks.

Section B will consist of **four (4)** short answer questions. The candidates will be required to answer **all** the questions. Each question will weigh **ten (10)** marks, making a total of **40** marks.

Section C will consist of **three (3)** questions on problem-solving/manipulations/ recording of financial transactions. The candidates will be required to answer **all** the questions. Each question will weigh **15** marks, hence a total of **45** marks.

Note: To answer these questions, candidates will be allowed to use non-programmable calculators.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

- 5.1 Introduction to Book Keeping
- 5.2 Books of prime entry
- 5.3 Principle of double entry
- 5.4 Trial balance
- 5.5 Elementary financial statements
- 5.6 Columnar cash books
- 5.7 Bank reconciliation
- 5.8 Government accounting and budgeting
- 5.9 Correction of errors
- 5.10 Adjustments
- 5.11 Control accounts
- 5.12 Accounting for single entry and incomplete records
- 5.13 Accounts of non-profit making organisations
- 5.14 Accounts for manufacturing firms
- 5.15 Consignments
- 5.16 Accounting for joint businesses
- 5.17 Accounting for department stores
- 5.18 Elements of auditing.

Table of Specifications for 062 Book Keeping

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|----------------------------------------------------|---------------------|--------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understandin | Applying | Analysing | Evaluating | Creating | | |
| 1. | Introduction to Book Keeping | | | | | | | 1 | 5.56 |
| 2. | Books of prime entry | | | | | | | 1 | 5.56 |
| 3. | Principle of double entry | | | | | | | 1 | 5.56 |
| 4. | Trial balance | | | | | | | 1 | 5.56 |
| 5. | Elementary financial statements | | | | | | | 1 | 5.56 |
| 6. | Columnar cash books | | | | | | | 1 | 5.56 |
| 7. | Bank reconciliation statements | | | | | | | 1 | 5.56 |
| 8. | Government accounting and budgeting | | | | | | | 1 | 5.56 |
| 9. | Correction of Book-keeping errors | | | | | | | 1 | 5.56 |
| 10. | Adjustments | | | | | | | 1 | 5.56 |
| 11. | Control accounts | | | | | | | 1 | 5.56 |
| 12. | Accounting for single entry and incomplete records | | | | | | | 1 | 5.56 |
| 13. | Accounts of non-profit making organisations | | | | | | | 1 | 5.56 |
| 14. | Accounts for manufacturing firms | | | | | | | 1 | 5.56 |
| 15. | Consignments | | | | | | | 1 | 5.56 |
| 16. | Accounting for joint businesses | | | | | | | 1 | 5.56 |
| 17. | Accounting for department stores | | | | | | | 1 | 5.56 |
| 18. | Elements of auditing | | | | | | | 1 | 5.56 |
| Total Number of Items | | | | | | | | 18 | |
| Total Percentage Weight | | | | | | | | | 100 |

071 BUILDING CONSTRUCTION

(For Both School and Private Candidates)

1.0 INTRODUCTION

This examination format revises the 2019 version which was issued by the National Examinations Council of Tanzania (NECTA). The revised format is based on the 2019 Building Construction syllabus for Technical Secondary Schools Form I – IV. To comply with the requirements of the revised syllabus, the revised format also accommodates improvements in the examination rubric, general objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination intends to assess the extent to which the candidates can:

- 2.1 improve performance in the building construction industry and other economic and social service sector as a trained and skilled person;
- 2.2 prepare construction sites;
- 2.3 prepare concrete mixes, ratios, bricks, blocks, mortars, temporary support and formworks;
- 2.4 erect foundation walls, fireplaces, and roof structures, water supply system and construction of small irrigation works; and
- 2.5 use cost management skills and knowledge in estimating costs for the construction of simple residential buildings.

3.0 GENERAL COMPETENCIES

The examination will test candidates' ability to:

- 3.1 explore socio-economic factors in the building construction career;
- 3.2 apply building construction skills in preparing a construction site;
- 3.3 apply building construction skills in preparing concrete mixes, ratios, bricks, blocks, mortars, temporary support, and formworks;
- 3.4 erect foundation walls, fireplaces, and roof structures;

- 3.5 install drainage systems, domestic wastewater systems, and domestic water supply system as well as construction of small irrigation works; and
- 3.6 acquire skills in building construction works, service, entrepreneurship and business management.

4.0 EXAMINATION RUBRIC

There will be **one (1)** theory paper with a duration of **three (3)** hours. The paper will consist of **11** questions in sections A, B and C. Candidates will be required to answer **10** questions which will amount for **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each question will weigh **one (1)** mark, making a total of **10** marks. Question number 2 will be a matching-items question made up of **six (6)** items. Each item will carry **one (1)** mark, making a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** structured questions. The candidates will be required to attempt **two (2)** questions. Each question will carry **15** marks. The whole section will weigh **30** marks.

5.0 EXAMINATION CONTENT

The examination will be set from the following topics:

- 5.1 Workshop orientation
- 5.2 Building construction, science and technology
- 5.3 Construction workshop practice
- 5.4 Introduction to building construction
- 5.5 Building construction, site analysis
- 5.6 Building materials and Workshop practice
- 5.7 Masonry works and Workshop practice
- 5.8 Foundation setting out and Workshop practice

- 5.9 Wall and workshop practice
- 5.10 Temporary support
- 5.11 Floors
- 5.12 Roofs
- 5.13 Stair and staircase
- 5.14 Piping system
- 5.15 Water supply
- 5.16 Fireplace
- 5.17 Beams and columns
- 5.18 Drainage and rainwater harvesting systems
- 5.19 Plumbing science
- 5.20 Pumps
- 5.21 Sanitary appliances
- 5.22 Metal joining
- 5.23 Cost estimate
- 5.24 Schedules of material
- 5.25 The progress chart
- 5.26 Irrigation system

Table of Specifications for 071 Building Construction

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Workshop orientation | | | | | | | 1 | 5.0 |
| 2. | Introduction to building construction, Building construction, science and technology and construction practice | | | | | | | 1 | 5.0 |
| 3. | Building construction, site analysis | | | | | | | 1 | 5.0 |
| 4. | Building materials and Workshop practice | | | | | | | 1 | 5.0 |
| 5. | Masonry works and Workshop practice | | | | | | | 1 | 5.0 |
| 6. | Foundation setting out and Workshop practice | | | | | | | 1 | 5.0 |
| 7. | Wall, Temporary support and Workshop practice | | | | | | | 1 | 5.0 |
| 8. | Floors | | | | | | | 1 | 5.0 |
| 9. | Roofs | | | | | | | 1 | 5.0 |
| 10. | Stair and staircase | | | | | | | 1 | 5.0 |
| 11. | Piping system and water supply | | | | | | | 1 | 5.0 |
| 12. | Fireplace | | | | | | | 1 | 5.0 |
| 13. | Beams and columns | | | | | | | 1 | 5.0 |
| 14. | Drainage and rainwater harvesting systems | | | | | | | 1 | 5.0 |
| 15. | Plumbing science and pumps | | | | | | | 1 | 5.0 |
| 16. | Sanitary appliances | | | | | | | 1 | 5.0 |
| 17. | Metal joining | | | | | | | 1 | 5.0 |
| 18. | Cost estimate | | | | | | | 1 | 5.0 |
| 19. | The progress chart and schedules of material | | | | | | | 1 | 5.0 |
| 20. | Irrigation system | | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

072 ARCHITECTURAL DRAUGHTING

(For Both School and Private Candidates)

1.0 INTRODUCTION

This examination format revises the 2019 version, which was issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2019 Civil Engineering syllabus for Technical Secondary Schools Form I – IV. To comply with the requirements of the revised syllabus, the revised format also accommodates improvements in the examination rubric, general objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination intends to assess the extent to which the candidates can:

- 2.1 use skills and knowledge learnt from the architectural draughting in construction practices;
- 2.2 apply knowledge of construction/ draughting of building in solving construction problems.
- 2.3 apply the acquired competencies in solving day-to-day problems;
- 2.4 explore architectural draughting opportunities and needs in his/her society;
- 2.5 use the acquired skills for self-employment and in performing architectural draughting in building industry; and
- 2.6 become responsive to dynamically-changing socio-economic and technological needs.

3.0 GENERAL COMPETENCIES

The examination will assess the candidates' ability to:

- 3.1 explore socio-economic factors as considerations in their own subject study electives/choices and career;
- 3.2 draw outlines of simple residential buildings, site plans, water supply systems, and drainage systems;
- 3.3 apply traditional drawing methods to produce working drawings (schematic drawings), detail drawings, water supply

system and drainage system for simple residential building;
and

- 3.4 apply computer aided draughting to produce working drawings (schematic drawings), detail drawings, water supply systems, and drainage systems for simple residential buildings.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for a **three (3)** hour duration. The paper will consist of sections A, B and C with a total of **eight (8)** questions. The candidates will be required to answer **all** the questions in each section. The paper will weigh a total of **100** marks.

Section A will consist of **one (1)** multiple choice question with **10** items. Each item will carry **one (1)** mark, hence a total of **10** marks.

Section B will consist of **six (6)** short answer questions, each carrying **10** marks. Therefore, this section will weigh a total of **60** marks.

Section C will consist of **one (1)** structured question, weighing **30** marks.

5.0 EXAMINATION CONTENT

The examination will be based on the following topics;

- 5.1 Architectural draughting
- 5.2 Architectural draughting and occupational information
- 5.3 Instruments/equipment and materials
- 5.4 Lettering
- 5.5 Layout of the drawing paper or paper formatting
- 5.6 Blending of straight lines and curves
- 5.7 Geometrical figures
- 5.8 Dimensions
- 5.9 Scales
- 5.10 Orthographic projection
- 5.11 Points, lines, and planes in space
- 5.12 Auxiliary views

- 5.13 Pictorial drawing
- 5.14 Perspective drawing
- 5.15 Residential (dwelling) house development
- 5.16 Floor plan
- 5.17 Foundation
- 5.18 Roofs
- 5.19 Sections
- 5.20 Elevations
- 5.21 Doors
- 5.22 Windows
- 5.23 Stairs and staircases
- 5.24 Electrical supply and distribution
- 5.25 Fireplaces and flues
- 5.26 Water supply
- 5.27 Drainage system
- 5.28 Building specifications
- 5.29 Reproduction and storage of drawings
- 5.30 Computer Aided Draughting (CAD)
- 5.31 Passive regulated house development

Table of Specifications for 072 Architectural Draughting

| S/N | Topic | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|-----------------------------------|-----------------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Architectural draughting and occupational information | | | | | | | 1 | 5.88 |
| 2. | Instruments/equipment and materials | | | | | | | 1 | 5.88 |
| 3. | Lettering, Layout of the drawing paper or paper formatting, dimensions and scales | | | | | | | 1 | 5.88 |
| 4. | Blending of straight lines and curves and geometrical figures | | | | | | | 1 | 5.88 |
| 5. | Orthographic projection | | | | | | | 1 | 5.88 |
| 6. | Points, lines, and planes in space and auxiliary views | | | | | | | 1 | 5.88 |
| 7. | Pictorial drawing and perspective drawing | | | | | | | 1 | 5.88 |
| 8. | Residential (dwelling) house development | | | | | | | 1 | 5.88 |
| 9. | Development of floor and foundation plan | | | | | | | 1 | 5.88 |
| 10. | Roofs, sections, and elevations | | | | | | | 1 | 5.88 |
| 11. | Doors and windows | | | | | | | 1 | 5.88 |
| 12. | Stairs and staircases | | | | | | | 1 | 5.88 |
| 13. | Electrical supply and distribution, fireplaces and flues | | | | | | | 1 | 5.88 |
| 14. | Water supply and drainage system | | | | | | | 1 | 5.88 |
| 15. | Building specifications, reproduction, and storage of drawings | | | | | | | 1 | 5.88 |
| 16. | Computer Aided Draughting (CAD) | | | | | | | 1 | 5.88 |
| 17. | Passive regulated house development | | | | | | | 1 | 5.88 |
| Total Number of Items | | | | | | | | 17 | |
| Total Percentage Weighting | | | | | | | | | 100 |

073 CIVIL ENGINEERING SURVEYING

(For Both School and Private Candidates)

1.0 INTRODUCTION

This examination format revises the 2019 version, which was issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2019 Civil Engineering syllabus for Technical Secondary Schools Form I – IV. To comply with the requirements of the revised syllabus, the revised format also accommodates improvements in the examination rubric, general objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination intends to assess the extent to which the candidates can:

- 2.1 use surveying skills acquired to solve different problems in the industry and other economic and social service sectors;
- 2.2 explain ranges of various surveying methods and use the most accurate method of surveying in fieldwork activities;
- 2.3 participate in social activities related to surveying such as settlement planning, earthwork, etc.;
- 2.4 use levelling instruments in fieldwork, booking data and plotting various levelling plans, sections, and establishing temporary benchmarks and levelling stations;
- 2.5 use surveying instruments to perform transverse in fieldwork, set out construction works (plan control, height control, and vertical alignment excavation control) and calculate the area and volume of earthwork; and
- 2.6 use computer-aided drawing software to plot the drawing.

3.0 GENERAL COMPETENCIES

The examination will test the candidates' ability in demonstrating how to:

- 3.1 explore socio-economic factors in surveying as his/her career and study choice;

- 3.2 apply a range of surveying methods and use the most accurate method of surveying;
- 3.3 use basic skills to conduct chain surveying, fieldwork, and plotting of both small and large areas;
- 3.4 use levelling instruments to perform various fieldwork activities and establish temporary benchmarks and levelling stations;
- 3.5 use surveying instruments to perform transverse in the fieldwork activities; and
- 3.6 use computer-aided drawing software to plot the drawing.

4.0 EXAMINATION RUBRIC

There will be **one (1)** theory paper for a **three (3)** hour duration. The paper will consist of **11** questions in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will carry **100** marks.

Section A will comprise **two (2)** questions. Question 1 will consist of **ten (10)** multiple-choice items. Each item will carry **one (1)** mark, making a total of **ten (10)** marks. Question 2 will be a matching-items question with **six (6)** items. Each item will carry **one (1)** mark, making a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** structured questions. The candidates will be required to attempt **two (2)** questions. Each question will carry **15** marks. The whole section will weigh **30** marks.

5.0 EXAMINATION CONTENT

The examination questions will be set based on the following topics:

- 5.1 Introduction
- 5.2 Civil engineering surveyor

- 5.3 Safety management and rules
- 5.4 Introduction surveying methods
- 5.5 Chain surveying and linear measurement
- 5.6 Compass surveying
- 5.7 Surveying techniques for small areas
- 5.8 Levelling
- 5.9 Line levelling
- 5.10 Contouring
- 5.11 Theodolite surveying
- 5.12 Traverse surveying
- 5.13 Setting out for construction work
- 5.14 Areas and volumes
- 5.15 Surveying practice
- 5.16 Surveying tools and equipment
- 5.17 Surveying techniques (Practice)
- 5.18 Surveying techniques for small areas (practice)
- 5.19 Fieldwork (levelling)
- 5.20 Introduction to Computer-Aided Draughting (CAD)

Table of Specifications for 073 Civil Engineering Surveying

| S/N | Topics | Skills to be Tested | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-------------------------------------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | | |
| 1. | Introduction/Civil engineering surveyor/Safety management and Rules/Introduction to surveying methods | | | | | | 1 | 5.0 |
| 2. | Chain surveying and linear Measurement/ Compass surveying | | | | | | 1 | 5.0 |
| 3. | Surveying techniques for small areas | | | | | | 3 | 15.0 |
| 4. | Levelling | | | | | | 2 | 10.0 |
| 5. | Line levelling | | | | | | 1 | 5.0 |
| 6. | Contouring | | | | | | 2 | 10.0 |
| 7. | Theodolite surveying | | | | | | 1 | 5.0 |
| 8. | Traverse surveying | | | | | | 2 | 10.0 |
| 9. | Setting out for construction work | | | | | | 1 | 5.0 |
| 10. | Areas and volumes | | | | | | 2 | 10.0 |
| 11. | Surveying practice | | | | | | 1 | 5.0 |
| 12. | Surveying tools and equipment | | | | | | 1 | 5.0 |
| 13. | Surveying techniques (Practice) | | | | | | 1 | 5.0 |
| 14. | Surveying techniques for small areas (Practice) | | | | | | | |
| 15. | Fieldwork (Levelling) | | | | | | 1 | 5.0 |
| 16. | Introduction to computer-aided draughting (CAD) | | | | | | | |
| Total Number of Items | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | 100 |

074 WOOD AND PAINTING ENGINEERING

(For Both School and Private Candidates)

1.0 INTRODUCTION

This examination format revises the 2019 version, which was issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2019 Civil Engineering syllabus for Technical Secondary Schools Form I – IV. To comply with the requirements of the revised syllabus, the revised format accommodates improvements in the examination rubric, general objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination intends to assess the extent to which the candidates can:

- 2.1 demonstrate skills and knowledge of Woodwork and Painting in real life;
- 2.2 use his/her skills acquired in the Woodwork and Painting Engineering subject to recognise opportunities and execute them effectively; and
- 2.3 use his/her knowledge to contribute to innovation and development of woodwork and painting product.

3.0 GENERAL COMPETENCIES

The examination will test candidates' ability to:

- 3.1 explore socio-economic factors as considerations in the Woodwork and Painting subject as his/her own career;
- 3.2 produce drawings sketches and patterns for woodwork and painting works;
- 3.3 construct different types of wooden frameworks;
- 3.4 use and apply different types of paints to decorate various structures;
- 3.5 design and construct wooden products; and
- 3.6 design decorative patterns on different surfaces.

4.0 EXAMINATION RUBRIC

There will be **one (1)** theory paper for **three (3)** hours. The paper will consist of **11** questions in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh **100** marks.

Section A will comprise **two (2)** questions. Question 1 will consist of **ten (10)** multiple choice items. Each item will carry **one (1)** mark, making a total of **ten (10)** marks. Question 2 will be a matching question with **six (6)** items. Each item will carry **one (1)** mark, making a total of **six (6)** marks. Therefore, the section will account for **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** structured questions. The candidates will be required to attempt **two (2)** questions. Each question will carry **15** marks. The whole section will weigh **30** marks.

5.0 EXAMINATION CONTENT

The examination questions will be drawn from the following topics:

- 5.1 Introduction to Painting
- 5.2 Safety Rules and Management
- 5.3 Colour
- 5.4 Water Paints
- 5.5 Tie and Dying
- 5.6 Sign Writing and Stencilling
- 5.7 Oil Paint
- 5.8 Functional Requirement of Paints
- 5.9 Painting Techniques
- 5.10 Varnishes and Finishes
- 5.11 Timber
- 5.12 Adhesives
- 5.13 Iron Mongery

- 5.14 Temporary Support
- 5.15 Doors and Windows
- 5.16 Ceiling
- 5.17 Wooden Stairs and Staircase
- 5.18 Workshop Orientation
- 5.19 Painting Materials
- 5.20 Spraying and Spray Equipment
- 5.21 Truing up Wood
- 5.22 Furniture
- 5.23 Roofs
- 5.24 Wooden Floors

Table of Specifications for 074 Wood and Painting Engineering

| S/ N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-------------------------------------|---------------------|---------------|----------|-----------|------------|----------|------------------------------|--------------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Introduction to Painting | | | | | | | 1 | 5.0 |
| 2. | Colour | | | | | | | | |
| 3. | Safety Rules and Management | | | | | | | 1 | 5.0 |
| 4. | Water Paints | | | | | | | 1 | 5.0 |
| 5. | Tie and Dying | | | | | | | 1 | 5.0 |
| 6. | Sign Writing and Stencilling | | | | | | | 2 | 10.0 |
| 7. | Oil Paint | | | | | | | 1 | 5.0 |
| 8. | Functional Requirement of Paints | | | | | | | 1 | 5.0 |
| 9. | Painting Techniques | | | | | | | | |
| 10. | Varnishes and Finishes | | | | | | | | |
| 11. | Timber | | | | | | | 1 | 5.0 |
| 12. | Iron Mongery | | | | | | | | |
| 13. | Adhesives | | | | | | | 1 | 5.0 |
| 14. | Temporary Support | | | | | | | 1 | 5.0 |
| 15. | Doors and Windows | | | | | | | 1 | 5.0 |
| 16. | Ceiling | | | | | | | 1 | 5.0 |
| 17. | Wooden Stairs and Staircase | | | | | | | | |
| 18. | Workshop Orientation | | | | | | | | |
| 19. | Painting Materials | | | | | | | 2 | 10.0 |
| 20. | Spraying and spray equipment | | | | | | | 1 | 5.0 |
| 21. | Furniture | | | | | | | 1 | 5.0 |
| 22. | Truing up Wood | | | | | | | 1 | 5.0 |
| 23. | Roofs | | | | | | | 1 | 5.0 |
| 24. | Wooden Floors | | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

080 ELECTRICAL ENGINEERING

(For Both School and Private Candidates)

1.0 INTRODUCTION

The Electrical Engineering examination format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). The format is based on the 2019 Electrical Engineering syllabus for Technical Secondary Schools Form I – IV. To comply with the requirements of the revised syllabus, the revised format accommodates improvements in the examination rubric, general objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 perform services needed for improving performance in industry and other economic sectors;
- 2.2 provide some of the services needed in entrepreneurship and business management;
- 2.3 instal electric machines (transformers, DC and AC motors and generators);
- 2.4 draw electrical installation layout from a given house plan; and
- 2.5 apply knowledge of domestic and industrial installation in different wiring systems.

3.0 GENERAL COMPETENCIES

The examination will assess the candidate's ability to:

- 3.1 use appropriate hand tools for specific jobs in Electrical Engineering;
- 3.2 demonstrate knowledge of domestic and industrial installation using different wiring systems;
- 3.3 draw an electrical installation layout from a given house plan;
- 3.4 apply basic skills in installing electric machines (transformers, DC and AC motors and generators); and
- 3.5 use basic skills in rewinding AC motors.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for a **three (3)** hour duration. The paper will consist of **11** questions in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will account for **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will consist of **10** multiple-choice items. The candidates will be required to choose correct answer from the given alternatives. Each item will carry **one (1)** mark. Question number 2 will be a matching question with **six (6)** items. Each item will weigh **one (1)** mark. Hence the section will weigh **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will comprise **three (3)** structured questions. The candidates will be required to answer any **two (2)** questions. Each question will weigh **15** marks. Hence, the section will weigh **30** marks.

5.0 EXAMINATION CONTENT

The examination questions will be drawn from the following topics:

- 5.1 Electrical engineering science and technology
- 5.2 Electrical workshop orientation
- 5.3 Electricity
- 5.4 Workshop practice
- 5.5 Units
- 5.6 D.C circuits
- 5.7 Instrumentations and measurements
- 5.8 Cells and batteries
- 5.9 Magnetism, electromagnetism, and magnetic circuit
- 5.10 Generation of A.C Voltage
- 5.11 Transformer
- 5.12 Current electricity
- 5.13 Capacitors and capacitance
- 5.14 Illumination
- 5.15 DC machines
- 5.16 AC machines

Table of Specifications for 080 Electrical Engineering

| S/N | Topic | Skills to be Tested | | | | | Number of Items per Topic | Percentage Weight Per Topic |
|--------------------------------|-----------------------------------------------|---------------------|---------------|----------|-----------|------------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | | |
| 1. | Electrical Engineering Science and Technology | | | | | | 1 | 5.0 |
| 2. | Electrical Workshop Orientation | | | | | | 1 | 5.0 |
| 3. | Electricity and Current Electricity | | | | | | 1 | 5.0 |
| 4. | Units | | | | | | 1 | 5.0 |
| 5. | D.C Circuits | | | | | | 1 | 5.0 |
| 6. | Instrumentations and Measurements | | | | | | 1 | 5.0 |
| 7. | Cells and Batteries | | | | | | 1 | 5.0 |
| 8. | Electromagnetism and Magnetic Circuit | | | | | | 1 | 5.0 |
| 9. | Generation of A.C Voltage | | | | | | 1 | 5.0 |
| 10. | Transformer | | | | | | 1 | 5.0 |
| 11. | Illumination | | | | | | 3 | 15.0 |
| 12. | Capacitors and Capacitance | | | | | | 1 | 5.0 |
| 13. | D.C Machines | | | | | | 2 | 10.0 |
| 14. | A.C Machines | | | | | | 3 | 15.0 |
| 15. | Electrical Draughting | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | 20 | 100 |
| Total Percentage Weight | | | | | | | | |

081 ELECTRONICS AND COMMUNICATION ENGINEERING

(For Both School and Private Candidates)

1.0 INTRODUCTION

This Electronics and Communication Engineering examination format revises the version of the 2019 issued by National Examinations Council of Tanzania (NECTA). The revised format is based on the 2019 Electronics and Communication Engineering syllabus for Technical Secondary Schools Form I – IV. To comply with the requirements of the revised syllabus, there is also an improvement in the examination rubric, general objectives, content, and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which candidates are able to:

- 2.1 adhere to workshop safety management, rules and regulations;
- 2.2 describe and use solid-state devices in designing, constructing, and operating electronic systems;
- 2.3 analyse different parameters associated with electronic and communication systems;
- 2.4 install, maintain, troubleshoot and repair a variety of solid-state devices and systems; and
- 2.5 diagnose, service and repair radio and TV circuits, including power supplies using test equipment.

3.0 GENERAL COMPETENCIES

The examination will assess candidates' ability to:

- 3.1 apply workshop safety rules and regulations.
- 3.2 analyse electronic parameters used in radio and TV receivers;
- 3.3 use solid-state devices in designing and operating electronic systems;
- 3.4 install, maintain, troubleshoot, and repair various solid-state components and systems;
- 3.5 read symbols of components used in electronics and communication systems;

- 3.6 check faults of radio and television circuits using electronic tools and test instruments;
- 3.7 service and repair power supplies and other parts of a television receiver; and
- 3.8 perform preventive and corrective maintenance of electronics and communication systems.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for a **three (3)** hour examination. The paper will consist of **11** questions in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will account for **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each item will carry **one (1)** mark, making a total of **10** marks. Question number 2 will be a matching question, consisting of **six (6)** items. Each item will carry **one (1)** mark, making a total of **six 6** marks. Therefore, the section will account for **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** essay questions. Candidates will be required to answer **two (2)** questions. Each question will weigh **15** marks. Therefore, the section will weigh a total of **30** marks.

5.0 EXAMINATION CONTENT

The candidates will be assessed on following topics:

- 5.1 Electronics engineering occupational information
- 5.2 Safety management and rules
- 5.3 Introduction on electricity
- 5.4 Introduction to measurements and instrumentation
- 5.5 Electronic components

- 5.6 Semiconductors
- 5.7 Semiconductor devices
- 5.8 Electronics workshop practice II
- 5.9 Transistors
- 5.10 Electronics amplifiers
- 5.11 Communication systems
- 5.12 Radio communication
- 5.13 Consumer electronic product testing and fault-finding
- 5.14 Digital electronics
- 5.15 Television receiver
- 5.16 Repair and maintenance of TV receiver set
- 5.17 Consumer electronics
- 5.18 Cable television
- 5.19 Cell phone repairs and service

Table of Specifications for 081 Electronics and Communication Engineering

| S/N | Topic | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-------------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Electronics engineering occupational information, Safety management and rules | | | | | | | 2 | 10.0 |
| 2. | Introduction on electricity | | | | | | | 1 | 5.0 |
| 3. | Introduction to measurements and instrumentation | | | | | | | 1 | 5.0 |
| 4. | Electronic components | | | | | | | 1 | 5.0 |
| 5. | Semiconductors and Semiconductor devices | | | | | | | 2 | 10.0 |
| 6. | Transistors | | | | | | | 1 | 5.0 |
| 7. | Electronics amplifiers | | | | | | | 1 | 5.0 |
| 8. | Communication systems | | | | | | | 1 | 5.0 |
| 9. | Radio communication | | | | | | | 1 | 5.0 |
| 10. | Consumer electronics product testing and fault finding | | | | | | | 1 | 5.0 |
| 11. | Digital electronics | | | | | | | 1 | 5.0 |
| 12. | Television receiver | | | | | | | 1 | 5.0 |
| 13. | Repair and maintenance of TV Receiver Set | | | | | | | 2 | 10.0 |
| 14. | Cable television | | | | | | | 1 | 5.0 |
| 15. | Consumer electronics | | | | | | | 1 | 5.0 |
| 16. | Cell phone repairs and service | | | | | | | 2 | 10.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

082 ELECTRICAL DRAUGHTING

(For Both School and Private Candidates)

1.0 INTRODUCTION

This Electrical Draughting examination format is a revised version of the 2019 issued by the National Examinations Council of Tanzania (NECTA). The revised format is based on the 2019 Electrical Engineering syllabus for Technical Secondary Schools Form I – IV. To comply with the requirements of the revised syllabus, the improvements have been done on the examination rubric, general objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 identify different tools used in drawings;
- 2.2 identify different types of electrical drawings;
- 2.3 identify electrical symbols used in electrical diagrams;
- 2.4 identify types of drawing sheet sizes used in electrical engineering drawings;
- 2.5 differentiate circuit from wiring diagram;
- 2.6 design lighting scheme by lumen and point-to-point methods;
- 2.7 describe the requirements for domestic wiring; and
- 2.8 prepare electrical installation layout from a given house plan.

3.0 GENERAL COMPETENCIES

The examination will assess the candidates' ability to:

- 3.1 use different tools in electrical drawings;
- 3.2 draw electrical symbols used in electrical diagrams;
- 3.3 lay out drawing sheets for engineering drawing;
- 3.4 sketch drawing layout;
- 3.5 draw different types of wiring system;
- 3.6 draw plan layout of wiring diagram;
- 3.7 draw schematic diagrams of electric circuit and wiring system;

- 3.8 demonstrate knowledge of domestic and industrial installation using different wiring systems;
- 3.9 draw electrical installation layout from a given house plan, and
- 3.10 draw circuit diagrams from wiring diagrams.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper with a duration of **three (3)** hours. The paper will consist of sections A, B and C with a total of **eight (8)** questions. The candidates will be required to answer **all** the questions in each section. The paper will weigh a total of **100** marks.

Section A will consist of **one (1)** multiple-choice question with **10** items. Each item will weigh **one (1)** mark, making a total of **10** marks.

Section B will consist of **six (6)** short answer questions, each question carrying **10** marks. Therefore, this section will weigh a total of **60** marks.

Section C will consist of **one (1)** structured question, weighing **30** marks.

5.0 EXAMINATION CONTENT

The examination questions will be drawn from the following topics:

5.1 Electrical Draughting

- 5.1.1 Introduction to electrical draughting
- 5.1.2 International Organisation for Standardisation (ISO) Sheet Layout and Sketching

5.2 Illumination

- 5.2.1 Lighting scheme
- 5.2.2 Domestic wiring system
- 5.2.3 Electrical diagrams
- 5.2.4 Simple domestic electrical installation

5.3 AC Machines

5.3.1 Single phase starter-motor

5.3.2 Three phase starter-motor

5.3.3 Wiring circuit of DOL starter-motor

Table of Specifications for 082 Electrical Draughting

| S/N | Topics | Skills to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|---------------------------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Introduction to Electrical Draughting | | | | | | | 1 | 5.88 |
| 2. | International Organisation for Standardisation (ISO) Sheet Layout and Sketching | | | | | | | 2 | 11.76 |
| 3. | Lighting Scheme | | | | | | | 2 | 11.76 |
| 4. | Domestic Wiring System | | | | | | | 2 | 11.76 |
| 5. | Electrical Diagrams | | | | | | | 2 | 11.76 |
| 6. | Simple Domestic Electrical Installation | | | | | | | 3 | 17.65 |
| 7. | Single-phase starter | | | | | | | 1 | 5.88 |
| 8. | Three-phase starter | | | | | | | 2 | 11.76 |
| 9. | Wiring circuits of DOL starter motor | | | | | | | 2 | 11.76 |
| Total Number of Items | | | | | | | | 17 | |
| Total Percentage Weight | | | | | | | | | 100 |

083 ELECTRONICS DRAUGHTING

(For Both School and Private Candidates)

1.0 INTRODUCTION

This Format is a revised version of the 2019 format issued by the National Examinations Council of Tanzania (NECTA). The revised format is based on the 2019 Electronics and Communication Engineering syllabus for Technical Secondary Schools Form I – IV. Compliance with the requirements of the revised syllabus, also involved addressing improvements in the examination rubric, general objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will assess the extent to which the candidates can:

- 2.1 identify tools used in drawings;
- 2.2 draw views of engineering components;
- 2.3 represent electronics systems with diagrams;
- 2.4 assemble and test common household electronics and electrical systems;
- 2.5 draw electronic logic circuit using NAND, AND, OR, NOR, NOT and Exclusive OR gates; and
- 2.6 draw simple block diagrams of electronics systems.

3.0 GENERAL COMPETENCIES

The examination will assess candidates' ability to:

- 3.1 draw figures and views of engineering components;
- 3.2 present information coherently using schematic drawings;
- 3.3 present electronic systems using schematic diagrams; and
- 3.4 draw a basic logic gates.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for a **three (3)** hour duration. The paper will consist of sections A, B and C with a total of **eight (8)** questions. Candidates will be required to answer **all** the questions in each section. The paper will carry a weight of a total of **100** marks.

Section A will consist of **one (1)** multiple choice question with **10** items, each carrying **one (1)** mark, hence a total of **ten (10)** marks.

Section B will consist of **six (6)** short answer questions. Each question will carry **ten (10)** marks. This section will weigh **60** marks.

Section C will consist of **one (1)** structured question carrying **30** marks.

5.0 EXAMINATION CONTENT

The examination questions will be set from the following topics;

5.1 Drawing Techniques

- 5.1.1 Drawing Office
- 5.1.2 International Standard Organisation (ISO) Sheet Layout and Sketching
- 5.1.3 Construction of Geometric Figures
- 5.1.4 Similar Figures
- 5.1.5 Pictorial Drawing (Oblique and Isometric)

5.2 Electronic Drawing

- 5.2.1 Block and Basic Diagrams in circuit development
- 5.2.2 Logic diagrams
- 5.2.3 Electronic components schematic symbols
- 5.2.4 Electronic schematic diagrams
- 5.2.5 Drawing schematic diagrams

Table of Specifications for 083 Electronic Draughting

| S/N | Topics | Skills to be Tested | | | | | Number of Items per Topic | Percentage Weight Per Topic | |
|--------------------------------|---------------------------------------------------------------|---------------------|---------------|----------|-----------|------------|---------------------------|-----------------------------|----------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | | | Creating |
| 1. | Drawing Office and International Standards Organisation (ISO) | | | | | | | 2 | 11.8 |
| 2. | Construction of Geometric Figures | | | | | | | 3 | 17.7 |
| 3. | Similar Figures | | | | | | | 3 | 17.7 |
| 4. | Pictorial Drawing (Oblique and Isometric) | | | | | | | 3 | 17.7 |
| 5. | Block and Basic Diagrams in a Circuit Development | | | | | | | 1 | 5.8 |
| 6. | Logic Diagrams | | | | | | | 1 | 5.8 |
| 7. | Electronic components schematic symbols | | | | | | | 1 | 5.8 |
| 8. | Electronic Diagrams and Schematic Drawings | | | | | | | 3 | 17.7 |
| Total Number of Items | | | | | | | 17 | | |
| Total Percentage Weight | | | | | | | | 100 | |

087 AUTOMOTIVE ENGINEERING
(For Both School and Private Candidates)

1.0 INTRODUCTION

The Automotive Engineering examination format revises the 2019 version issued by the National Examinations Council of Tanzania (NECTA). This format is based on the revised version of 2019 Mechanical Engineering Syllabus for Technical Secondary Schools Form I – IV. To comply with the requirements of the revised syllabus, the format accommodates improvements in the examination rubric, general objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will test the extent to which candidates can:

- 2.1 describe the functions, select, and use various engineering materials, machines equipment and tools in performing different engineering tasks;
- 2.2 use proper testing tools and equipment in testing the performance of mechanical engineering machines;
- 2.3 explain functions of various components of automotive systems;
- 2.4 explain applications of pneumatic and hydraulic system;
- 2.5 maintain and repair refrigeration and air conditioning systems;
- 2.6 identify malfunctions in engine systems;
- 2.7 describe and assemble automotive system;
- 2.8 use the knowledge and skill learnt to conduct different maintenance practice, and repair of automotive system; and
- 2.9 maintain and repair auto-electric system in a motor vehicle.

3.0 GENERAL COMPETENCIES

The examination will assess the candidates' ability to:

- 3.1 test performance of machines using proper testing tools and equipment;
- 3.2 use machine equipment and tools in performing different mechanical engineering tasks;

- 3.3 trouble shoot and analyse different faults in automotive system
- 3.4 repair pneumatic and hydraulic systems in automotive engineering;
- 3.5 troubleshoots different faults and repair refrigeration and air conditioning systems;
- 3.6 troubleshoot and analyse different faults in auto-electric system in motor vehicles;
- 3.7 recognise malfunctions in engine systems; and
- 3.8 conduct different maintenance practice and repair of automotive system;

4.0 EXAMINATION RUBRIC

There will be **one (1)** theory paper for **three (3)** hours. It will consist of **11** questions in sections A, B and C. The candidates will be required to answer **all** questions in section A and B and **two (2)** questions from section C. The total weight of the paper will account for **100** marks.

Section A will consist of **two (2)** questions. Question number 1 will be a multiple-choice question consisting of **10** items. Each item will carry **one (1)** mark, making a total of **10** marks. Question number 2 will be a matching question, comprising **six (6)** items. Each item will carry **one (1)** mark, making a total of **six (6)** marks. This section will carry a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will comprise **three (3)** structured questions. The candidates will be required to attempt **two (2)** questions. Each question will carry **15** marks. Therefore, the section will weigh **30** marks.

5.0 EXAMINATION CONTENT

The examination paper will be based on the following topics:

- 5.1 Introduction to science, engineering and technology of mechanical engineering jobs and occupations;
- 5.2 Workshop management and safety rules
- 5.3 Workshop tools and equipment
- 5.4 Tools and equipment used in mechanical engineering workshop
- 5.5 Automotive engineering
- 5.6 Automobile engine technology
- 5.7 Automotive systems I
- 5.8 Pneumatic and hydraulic principles
- 5.9 Automotive systems II
- 5.10 Power and energy
- 5.11 Automotive electric system
- 5.12 Automotive auxiliary system
- 5.13 Maintenance practice
- 5.14 Refrigeration and air conditioning
- 5.15 Engine systems
- 5.16 Auto-workshop practice

Table of Specifications for 087 Automotive Technology

| S/N | Topics | Skill to be Tested | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|-------------------------------------------------|--------------------|---------------|----------|-----------|------------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | | |
| 1. | Mechanical engineering jobs and occupations | | | | | | 1 | 5.0 |
| 2. | Workshop management and safety rules | | | | | | 1 | 5.0 |
| 3. | Workshop tools and equipment | | | | | | 1 | 5.0 |
| 4. | Automotive engineering | | | | | | 1 | 5.0 |
| 5. | Automobile engine technology | | | | | | 2 | 10.0 |
| 6. | Automotive systems I | | | | | | 2 | 10.0 |
| 7. | Pneumatic and hydraulic principles | | | | | | 1 | 5.0 |
| 8. | Refrigeration and air conditioning | | | | | | 1 | 5.0 |
| 9. | Engine systems | | | | | | 2 | 10.0 |
| 10. | Automotive systems II | | | | | | 3 | 15.0 |
| 11. | Power and energy | | | | | | 1 | 5.0 |
| 12. | Automotive electric system | | | | | | 2 | 10.0 |
| 13. | Automotive auxiliary system | | | | | | 1 | 5.0 |
| 14. | Maintenance practice and Auto workshop practice | | | | | | 1 | 5.0 |
| Total Number of Items | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | 100 |

088 MANUFACTURING ENGINEERING

(For Both School and Private Candidates)

1.0 INTRODUCTION

This Manufacturing Engineering examination format revises the 2019 Mechanical Engineering version issued by the National Examinations Council of Tanzania (NECTA). The revised format is based on the 2019 Mechanical Engineering syllabus for Technical Secondary Schools Form I – IV. To comply with the requirements of the revised syllabus, the improvements have been made on the examination rubric, general objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination will test the extent to which the candidates can:

- 2.1 describe the functions, select, and use various engineering materials, machines equipment and tools in performing different engineering tasks;
- 2.2 use proper testing tools and equipment in testing the performance of mechanical engineering machines;
- 2.3 develop skills of heat treatment for metals;
- 2.4 describe various metal forming processes;
- 2.5 develop skills for operating various machine tools to cut metals, turning, drill, grind, thread, taper turning, etc.;
- 2.6 describe different foundry operations; and
- 2.7 describe different maintenance procedures.

3.0 GENERAL COMPETENCES

The examination will assess the candidates' ability to:

- 3.1 test the performance of machines using proper testing tools and equipment;
- 3.2 show understanding of the functions of machines equipment and tools in performing different mechanical engineering tasks;
- 3.3 use heat treatment techniques to improve mechanical properties of metals;

- 3.4 demonstrate the use of machine tools in producing engineering products;
- 3.5 use welding machines to perform arc welding and gas welding processes;
- 3.6 apply foundry techniques to produce components;
- 3.7 demonstrate the knowledge and skills of using milling and shaping machines; and
- 3.8 prepare maintenance schedule and perform maintenance of different machine tools.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper for **three (3)** hours. The paper will consist of **11** questions in sections A, B and C. The candidates will be required to answer **all** the questions in sections A and B and **two (2)** questions from section C. The paper will weigh a total of **100** marks.

Section A will comprise **two (2)** questions. Question number 1 will be a multiple-choice question, consisting of **10** items. Each item will weigh **one (1)** mark, making a total of **10** marks. Question number 2 will be a matching-items question, consisting of **six (6)** items. Each item will carry **one (1)** mark, making a total of **six (6)** marks. Therefore, the section will weigh a total of **16** marks.

Section B will consist of **six (6)** short answer questions. Candidates will be required to answer **all** the questions. Each question will carry **nine (9)** marks, hence a total of **54** marks in this section.

Section C will consist of **three (3)** essay questions. Candidates will be required to answer **two (2)** questions. Each question will weigh **15** marks. Therefore, the section will weigh a total of **30** marks.

5.0 EXAMINATION CONTENT

The examination questions will be set from the following topics:

- 5.1 Mechanical engineering jobs and occupations, introduction to science, technology and engineering
- 5.2 Workshop management and safety rules
- 5.3 Workshop tools and equipment

- 5.4 Engineering materials
- 5.5 Metal work technology
- 5.6 Metal forming and heat treatment
- 5.7 Introduction to manufacturing
- 5.8 Machine tools I
- 5.9 Welding technology
- 5.10 Foundry technology
- 5.11 Maintenance practice
- 5.12 Machine tools II

Table of Specifications for 088 Manufacture Engineering

| S/N | Topics | Skill to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|--------------------------------|--------------------------------------------------------------------------------------------------|--------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Introduction to science, technology and engineering/Mechanical engineering jobs and occupations, | | | | | | | 1 | 5.0 |
| 2. | Workshop management and safety rules | | | | | | | 1 | 5.0 |
| 3. | Workshop tools and equipment | | | | | | | 1 | 5.0 |
| 4. | Introduction to manufacturing and Engineering materials | | | | | | | 2 | 10.0 |
| 5. | Metal forming and heat treatment, Introduction to manufacturing | | | | | | | 2 | 10.0 |
| 6. | Metal forming and heat treatment | | | | | | | 1 | 5.0 |
| 7. | Machine tools I | | | | | | | 2 | 10.0 |
| 8. | Welding technology | | | | | | | 2 | 10.0 |
| 9. | Foundry technology | | | | | | | 3 | 15.0 |
| 10. | Maintenance practice | | | | | | | 2 | 10.0 |
| 11. | Machine tools II | | | | | | | 3 | 15.0 |
| Total Number of Items | | | | | | | | 20 | |
| Total Percentage Weight | | | | | | | | | 100 |

091 ENGINEERING DRAWING

(For Both School and Private Candidates)

1.0 INTRODUCTION

The Engineering Drawing format is a revised version of the 2019 Mechanical Draughting examination format issued by the National Examinations Council of Tanzania (NECTA). This revised format is based on the Mechanical Engineering Syllabus Technical Secondary Schools Form I – IV issued in 2019. To comply with the requirements of the revised syllabus, the format accommodates improvements in the examination rubric, general objectives, content and competencies.

2.0 GENERAL OBJECTIVES

The examination intends to assess the extent to which the students can;

- 2.1 Identify dimension of drawings;
- 2.2 Draw views of engineering components; and
- 2.3 Identify and make simple engineering joints.

3.0 GENERAL COMPETENCIES

The examination will measure the students' ability to:

- 3.1 Draw views of engineering components; and
- 3.2 Make simple engineering joints.

4.0 EXAMINATION RUBRIC

There will be **one (1)** paper of **three (3)** hours. The paper will consist of sections A, B and C with a total of **six (6)** questions. The candidates will be required to answer **five (5)** questions which will account for **100** marks.

Section A will comprise **one (1)** multiple-choice question with **ten (10)** items. Each item will weigh **one (1)** mark, making a total of **10** marks.

Section B will consist of **four (4)** structured questions, each weighing **20** marks. The candidates will be required to answer **three (3)** questions, making a total of **60** marks in this section.

Section C will consist of **one (1)** compulsory structured question on Working and Assembly machine drawing and will weigh a total of **30** marks.

5.0 EXAMINATION CONTENT

The candidates will be examined on the following topics:

- 5.1 Engineering Drawing I
- 5.2 Engineering Drawing II
- 5.3 Engineering Drawing III
- 5.4 Introduction to CAD I
- 5.5 Engineering Drawing IV
- 5.6 Computer-Aided Drafting (CAD II)

Table of Specifications for 091 Engineering Drawing

| S/N | Topics | Skill to be Tested | | | | | | Number of Items per Topic | Percentage Weight per Topic |
|---------------------------------|----------------------------------|--------------------|---------------|----------|-----------|------------|----------|---------------------------|-----------------------------|
| | | Remembering | Understanding | Applying | Analysing | Evaluating | Creating | | |
| 1. | Engineering Drawing I | | | | | | | 3 | 20.0 |
| 2. | Engineering Drawing II | | | | | | | 4 | 26.7 |
| 3. | Engineering Drawing III | | | | | | | 3 | 20.0 |
| 4. | Introduction to CAD I | | | | | | | 2 | 13.3 |
| 5. | Engineering Drawing IV | | | | | | | 1 | 6.7 |
| 6. | Computer Aided Drafting (CAD II) | | | | | | | 2 | 13.3 |
| Total Number of Items | | | | | | | | 15 | |
| Total Percentages Weight | | | | | | | | | 100 |

**Appendix 1: A SUMMARY OF REVISED BLOOM'S TAXONOMY
ACTION VERBS FOR USE IN THE EXAMINATIONS**

| Cognitive Levels Assessed | How to Measure | Sample of Action Verbs Used | | | |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------|
| Remembering | Students' ability to recall, retrieve or recognise information, ideas, facts and principles in the approximate form in which they learned them | Define Recognise Recall Select Find Show Reproduce Give Mention Indicate | Identify Label List Memorise Name Outline Tell Point Out Locate Which | Duplicate Underline State Spell Repeat Record What Where When | Who |
| Understanding | Students' ability to translate, comprehend or interpret information, facts or ideas based on prior learning | Explain Summarise Paraphrase Describe Illustrate Approximate Clarify Complete Convert Extrapolate Fill in the Blanks | Convert Exemplify Restate Estimate Add Rewrite Insert Intraplate Interpolate | Extend Rephrase Translate Indicate Show Specify Retell To What Extent Why | How |
| Applying | Students' ability to select, transfer, use data, ideas, facts and principles to complete a problem or task in a new situation with | Use Compute Solve Apply Manipulate Demonstrate Derive Dramatize | Apply Change Calculate Illustrate Employ Assign Express Illustrate | Imitate Articulate Practice Instruct Simulate Make Use of | Utilize |

| Cognitive Levels Assessed | How to Measure | Sample of Action Verbs Used | | | |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| | minimum direction | | | | |
| Analysing | Students' ability to distinguish, classify, and relate the assumptions, hypotheses, evidence, or structure of a statement or question | Analyse Categorise Compare Contrast Separate Break Down Select Group Order Distinguish Characterise Relate | Discriminate Associate classify Divide Factorise Sequence Tabulate Prioritise | Operate Relate Organise Arrange Inspect Correlate | Differentiate |
| Evaluating | Students' ability to appraise, assess, or critique an idea or fact on a basis of specific standards and criteria | Judge Account For Infer Dispute Recommend Critique Justify Agree/Disagree Comment On Criticise Decide Deduce Diagnose | Assess Conclude Argue Evaluate Defend Support Appraise Disprove Grade Inspect Rule On Suggest | Reframe Predict Rate Verify Prioritise | |
| Creating | Students' ability to compose, design, assemble, and combine ideas into a whole product, plan or idea that is new to him or | Create Design Hypothesise Invent Develop Revise Prepare Discover Animate Enhance Improvise | Collect Combine Compose Construct Arrange Assemble Devise Formulate Join Modify Plot | Plan Rewrite Set Up Synthesise Change Generate Redesign Sketch | Rearrange Reconstruct Relate Propose Integrate Express Compile Reorganise |

| Cognitive Levels Assessed | How to Measure | Sample of Action Verbs Used | | | |
|---------------------------|----------------|-----------------------------|------|--|--|
| | her | Improve Invent | Draw | | |

Note: The interrogatives “*How*” and “*Why*” can be used to assess all the levels depending on the qualifiers used in the stem of the question.

**Appendix 2 : EXTREMELY VAGUE ACTION VERBS OR PHRASES
TO AVOID**

| Words to Avoid where Necessary | Phrases to Avoid where Necessary |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Believe • Hear • Realise • Capacity • Intelligence • Recognise • Comprehend • Know • See • Feel • Conceptualise • Listen • Memorise • Self-Actualise • Think • Experience • Perceive • Understand | <ul style="list-style-type: none"> • Show your appreciation for • How acquainted are you with • How are you adjusted to • Show your awareness of • Comprehension of • Cognisant of • Enjoyment of • How conscious are you of • How familiar are you with • Indicate your interest in • Show your knowledge of • How knowledgeable are you about • Indicate your understanding of • Write short notes. |

