

BASIC MATHEMATICS - CSEE CURRENT EXAMINATION FORMAT



THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION



041

BASIC MATHEMATICS

(For Both School and Private Candidates)

Time: 3 Hours

Year: 2019 - 2028

Instructions

1. This paper consists of sections **A** and **B** with a total of **fourteen (14)** questions.
2. Answer **all** questions in sections A and B.
3. Each question in section A carries **six (06)** marks while each question in section B carries **ten (10)** marks.
4. All necessary working and answers for each question must be shown clearly.
5. NECTA mathematical tables and non-programmable calculators may be used.
6. All communication devices and any unauthorized materials are **not** allowed in the examination room.
7. Write your **Examination Number** on every page of your answer booklet(s).

SECTION A (60 Marks)

Answer **all** questions in this section.

1. (a) **Numbers** (Form I syllabus)
(b) **Numbers II** (Form I syllabus)
(c) **Fractions** (Form I syllabus)
(d) **Decimals and Percentages** (Form I syllabus)
(e) **Approximations** (Form I syllabus)
2. (a) **Exponents and Radicals** (Form II syllabus)
(b) **Logarithms** (Form II syllabus)
3. (a) **Sets** (Form II syllabus)
(b) **Probability** (Form IV syllabus)
4. (a) **Vectors** (Form IV syllabus)
(b) **Coordinate Geometry** (Form I & IV syllabuses)
5. (a) **Areas and Perimeters** (Form I & IV syllabuses)
(b) **Congruence** (Form II syllabus)
(c) **Similarity** (Form II syllabus)
(d) **Geometry** (Form I syllabus)
6. (a) **Units** (Form I syllabus)
(b) **Rates and Variations** (Form III syllabus)
7. (a) **Ratio, Profit and Loss** (Form I syllabus)
(b) **Accounts** (Form III syllabus)
8. **Sequence and Series** (Form III syllabus)
9. (a) **Trigonometry** (Form II & IV syllabuses)
(b) **Pythagoras' Theorem** (Form II syllabus)
10. (a) **Algebra** (Form I & II syllabus)
(b) **Quadratic Equations** (Form II syllabus)

SECTION B (40 Marks)

Answer **all** questions in this section

- 11.(a) **Statistics** (Form II & III syllabuses)
(b) **Circles** (Form III syllabus)
- 12.(a) **Three Dimensional Figures** (Form IV syllabus)
(b) **The Earth as the Sphere** (Form III syllabus)
13. (a) **Matrices and Transformations** (Form IV syllabus)
(b) **Geometrical Transformations** (Form II syllabus)
- 14.(a) **Relations** (Form III syllabus)
(b) **Functions** (Form III syllabus)
(c) **Linear Programming** (Form IV syllabus)