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

113/1 **GEOGRAPHY 1**

(For Both School and Private Candidates)

Time: 3 Hours **Year : 2022**

Instructions

1. This paper consists of sections A and B with a total of **seven (7)** questions.
2. Answer a total of **five (5)** questions; **two (2)** questions from section A and **three (3)** questions from section B. Question number **one (1)** is compulsory.
3. In section A, question number **one (1)** carries **twenty five (25)** marks and the other two carry **fifteen (15)** marks each, while in section B, each question carries **twenty (20)** marks.
4. Credit will be given for the use of relevant sketch maps and diagrams.
5. Map extract of Mto wa Mbu (sheet 53/4) is provided.
6. Non programmable calculators may be used.
7. Cellular phones and any unauthorised materials are **not** allowed in the examination room.
8. Write your **Examination Number** on every page of your answer booklet(s).

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SECTION A (40 Marks)

Answer **two (2)** questions from this section. Question number **one (1)** is compulsory.

1. A team of surveyors moved from point A to B marking an angle of 45° and a distance of 400 m; from point B to C marking an angle of 100° and a distance of 300 m; from point C to D marking an angle of 60° and a distance of 450 m; and lastly from point D to E marking an angle of 80° and a distance of 500 m.
   (a) Tabulate the information with its back bearings.
   (b) Plot the traverse using a scale of 1:10000 or 1cm represent 100m.
   (c) Clearly put the data from the traverse into the double entry column book sheet.
   (d) Use the traverse plotted in (b) to explain five possible causes of errors.
   (e) How would you fix the errors in (d)? Give five points.

2. A quality Geography research study depends on a well and elaborative research proposal. In six points, explain the rationale for the quality research proposal in producing reliable research output.

3. Study carefully the map extract of Mto wa Mbu (sheet 53/4) provided and answer the following questions:
   (a) Using two evidences, propose the type of climate of the mapped area.
   (b) With relevant examples, describe two relief features that are found on the map.
   (c) Describe the site and three functions of Mto wa Mbu township.
   (d) Assume the Magnetic Variation (MV) of Mto wa Mbu as at July 2018 was 120° 36' W and its True Bearing (TB) was 180° 44'. If there was annual change of 4' positively, Calculate;
      (i) Magnetic Bearing as at January 2022.
      (ii) Magnetic Variation as at January 2022.

SECTION B (60 Marks)

Answer **three (3)** questions from this section.

4. You have been invited to a workshop organized by farmers whose harvests have been decreasing in quantity and quality over the years due to soil degradation. In six points, advise them on how they can improve both quality and quantity of their harvests.

5. In three points, classify global wind systems and assess the effects of wind and ocean currents on the aspects of rainfall and temperature. Give two points in each aspect.

6. You are invited by villagers from Lwandai Village in Lushoto District who wonder why muds flow from the mountains to their settlements. In six points, educate them on the causes of the situation.

7. The nature of the rock and the relief structures of the earth determine the development of river patterns. In six points, justify this statement with the aid of diagrams.