

THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE

REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

FORM SIX PRE- MOCK EXAMINATIONS - RUVUMA REGION

113/1

GEOGRAPHY 1

Time: 3 Hours

Wednesday, 14th August, 2024 a.m

Instructions

1. This paper consists of seven (7) questions in section A and B
2. Answer a total of five (5) questions, question number one (1) is compulsory
3. Each question carries twenty (20) marks
4. Cellular phones and unauthorized material are **not** allowed in the examination room.
5. Credit will be given for the use of relevant examples

SECTION A

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

1. Study carefully the map extract of Mbeya sheet 244/4 provided and answer the questions that follow
 - A. Using the mapped area. Identify three (3) determinants of climate and describe what they suggest about the climate of this area
 - B. On the map provided. Peter and Juma observed that magnetic variation was $9^{\circ}47'$ by march 2015. Find the new magnetic variation of the place by April 2019 if the annual change was $2'$ negatively
 - C. Measure the appropriate area in km^2 of the contoured map East of 510 if its scale is changed to read 1:100000

- D. Describe four(4) factors that have influenced composition of the mapped area
 - E. Describe the lithological nature of an area
 - F. Identify the feature found 5km ENE of the grid reference 432126
2. (a) Calculate the flying height of an air craft which produced a vertical aerial photograph at the scale of 1:200000 whose mean ground height was 500m above sea level with focal length of 152mm.
- (b) The student assigned to take the photograph of their school compound by using the drone. You as the student which technique would guide you to interpret that photograph. (5 points)
3. Mto Makavu village council planned to prepare the contoured map of the village in order to identify area suitable to establish settlement. In the process they invited the surveyors in order to determine the elevation of different point at the village
- a) Define the surveying method to be applied by the surveyor in order to fulfil their objective
 - b) With the aid of diagrams , describe the equipments to be applied in the task (5 point)
 - c) Outline the value of the surveying method to be applied. (provide five points.)

SECTION B

Answer three (3) questions from this section

- 4. Hamis is living around the ocean and sea and he is an oceanographer who studies different ocean and seas. On his carrier he comes to conclusion that different oceans and seas have different concentration of soluble salts. In six points describe the determinants of the situation noticed by Hamis
- 5. Currently the World is experiencing changes of temperature and rainfall pattern which affect the global ecosystem. Analyse the causes and impacts of the mentioned situation giving three points for each
- 6. Farmer at Magomamoto village are experiencing poor crops yield due to rampant soil degradation. What measures should they take in order to avert the situation?
- 7. Rock are formed and deformed through a specific cycle. Support the statement using six points and diagram.