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

113/1 **GEOGRAPHY 1**

(For Both School and Private Candidates)

Time: 3 Hours ***Tuesday, 12th February 2008 p.m.***

Instructions

1. This paper consists of sections A and B.
2. Answer a total of **five (5)** questions, choosing **two (2)** questions from section A and **three (3)** questions from section B. Question number **1** is compulsory.
3. Credit will be given for the use of relevant sketch maps and diagrams.
4. Map extract of Tanga, sheet 130/1 is included.
5. Cellular phones **are not** allowed in the examination room.
6. Write your **Examination Number** on every page of your answer booklet(s).

SECTION A (52 marks)

Answer question number **1** and any other question from this section.

You are advised to spend not more than 50 minutes on question number 1.
Question 1 = 36 marks
Question 2 − 5 = 16 marks each.

1. Study carefully the map extract of Tanga, sheet 130/1 provided, then questions the following questions:

   (a) Calculate the distance of the railway line (in km) from grid reference 044360 to grid reference 090386

   (b) Determine the trend alignment of part of the coastline from Ras Kazone grid reference 137417 to grid reference 148360.

   (c) With evidence from the map, explain the relationship between relief and drainage.

   (d) Draw an annotated cross profile from grid reference 030375 to grid reference 053443.

   (e) What type of landforms are depicted on the map?

   (f) With evidence from the map, suggest possible economic activities that are taking place in the area.

   (g) Explain clearly the factors that affect the content of topographical map.

2. Refer to figure 1 which shows hypothetical altitude values of country X.

   (a) Draw the form lines on it, with vertical intervals of 50 metres.

   (b) Enumerate the advantages and disadvantages of isopleth maps.

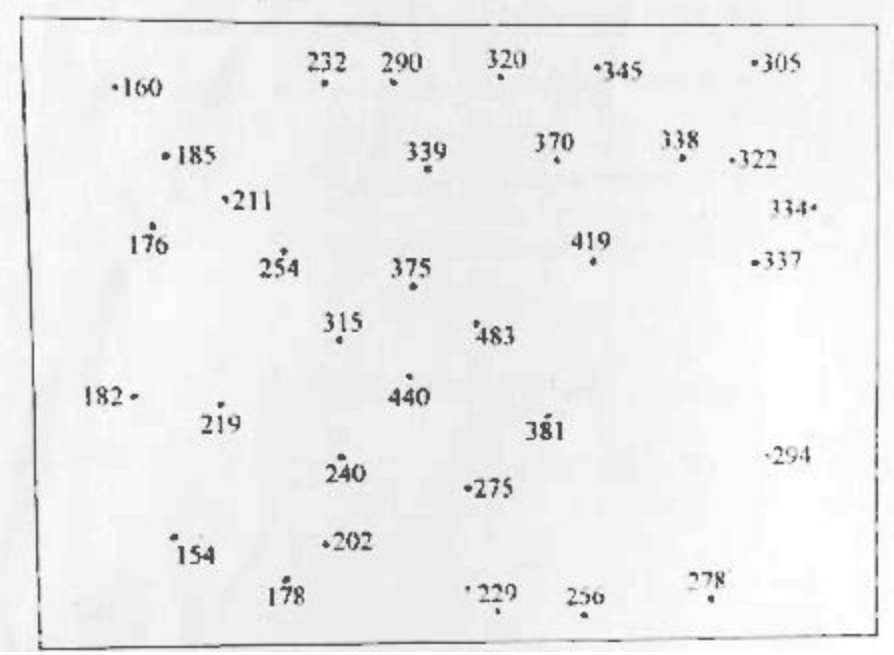


Fig. 1

3. (a) Distinguish oblique photographs from vertical aerial photographs.

   (b) Compare and contrast photographs and maps.

4. A research process proceeds through a logical manner in order to obtain meaningful information. Give an outline of research procedures.

5. (a) What is meant by triangle of error and how can one deal with it in setting a plane table?

   (b) Illustrate the meaning of intersection in plane table surveys.

SECTION B (60 marks)

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

6. Outline the pieces of evidence that support the theory of plate tectonics.

7. With examples, classify sedimentary rocks according to their mode of formation and examine their importance to humankind.

8. Examine the factors that have influenced the evolution of coastlines.

9. Examine the vertical structure of the atmosphere.

10. How do plants in deserts and semi-desert areas adapt to their climatic conditions?

11. Explain the role of human in soil fertility and suggest ways of improving soil fertility.

12. Account for the development of a long and cross profile of a river.

13. Classify lakes according to their mode of formation.