

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

113/1

**GEOGRAPHY 1  
PRACTICAL AND PHYSICAL GEOGRAPHY  
(For Both School and Private Candidates)**

*Time: 3 Hours*

**2006 February, 07 Tuesday p.m.**

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***INSTRUCTIONS***

1. This paper consists of **thirteen (13)** questions in sections A and B.
2. Answer **five (5)** questions. **Two (2)** questions from section A and **three (3)** questions from section B. Question **number one (1)** in section A is compulsory.
3. Map extract of Mpanda sheet 153/3 is provided.
4. Credit will be given for the use of relevant sketch maps and diagrams.
5. Cellular phones are **not** allowed in the examination room.
6. Write your **Examination Number** on every page of your answer booklet(s).

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**SECTION A (52 marks)**

**PRACTICAL GEOGRAPHY**

Answer question **one (1)** and any other question from this section. You are advised to spend not more than 50 minutes on question one.

**QUESTION 1 = 36 marks**  
**QUESTION 2 TO 4 = 16 marks each.**

1. Carefully study the map extract of Mpanda sheet 153/3 and answer the following questions:
  - (a) Give an account on the population distribution of the area.
  - (b) Explain factors that have influenced the distribution of vegetation of the mapped area.
  - (c) Find the actual distance of railway line from grid reference 860975 to 930039 in kilometres.
  - (d) Describe the environmental and social impacts that are likely to hit the mapped area being the asylum area.
  - (e) With reference to the relief and the settlement pattern of the area, account for the type, layouts and quality of overland transportation.

2. Study table 1 carefully and use it to answer the questions that follow.

**Table 1: Export of Agricultural Produce (tons) 1965 - 1967**

| Period | Sisal   | Cotton | Coffee | Groundnuts | Coconut |
|--------|---------|--------|--------|------------|---------|
| 1965   | 210,235 | 55,261 | 27,947 | 6,445      | 63,632  |
| 1966   | 195,812 | 84,786 | 50,321 | 4,653      | 71,099  |
| 1967   | 201,183 | 59,760 | 44,637 | 5,573      | 69,789  |

- (a) Draw a suitable line graph to represent the data shown in the table.
  - (b) Comment on the limitations of the method used.
3.
  - (a) Briefly give an account of field research.
  - (b) Outline the strengths and weaknesses of questionnaires and interviews as methods of data collection.
4.
  - (a) What is compass survey?
  - (b) Explain the ways that can be used to reduce errors during compass surveying.
5.
  - (a) A camera in an aircraft at an altitude of 1600 metres was used to take a photograph. Determine the focal length of the camera if the scale of the photograph is 1:50000.
  - (b) What are the merits and demerits of ground photographs?

**SECTION B (48 marks)**

**PHYSICAL GEOGRAPHY**

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

6. Give an account of the major divisions of the geological time scale.
7. Describe the favourable conditions for the development of a river capture.
8. Examine the factors which influence the rate of coastal wave erosion.
9. With the aid of diagrams write short notes on any four of the following:
  - (a) Atoll.
  - (b) Mesas and Buttes
  - (c) Geo.
  - (d) Zone of subduction.
  - (e) Rias.
  - (f) Eskers.
10. Examine the various causes of climatic changes experienced on the earth over different time scales.
11. To what extent can the theory of plate tectonic explain the present landforms in East Africa?
12. Briefly explain the following:
  - (a) Ecosystem.
  - (b) Habitat.
  - (c) Micro-climate.
  - (d) Climax vegetation.
13. With examples analyse the factors which influence soil formation.

