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.**

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).

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:

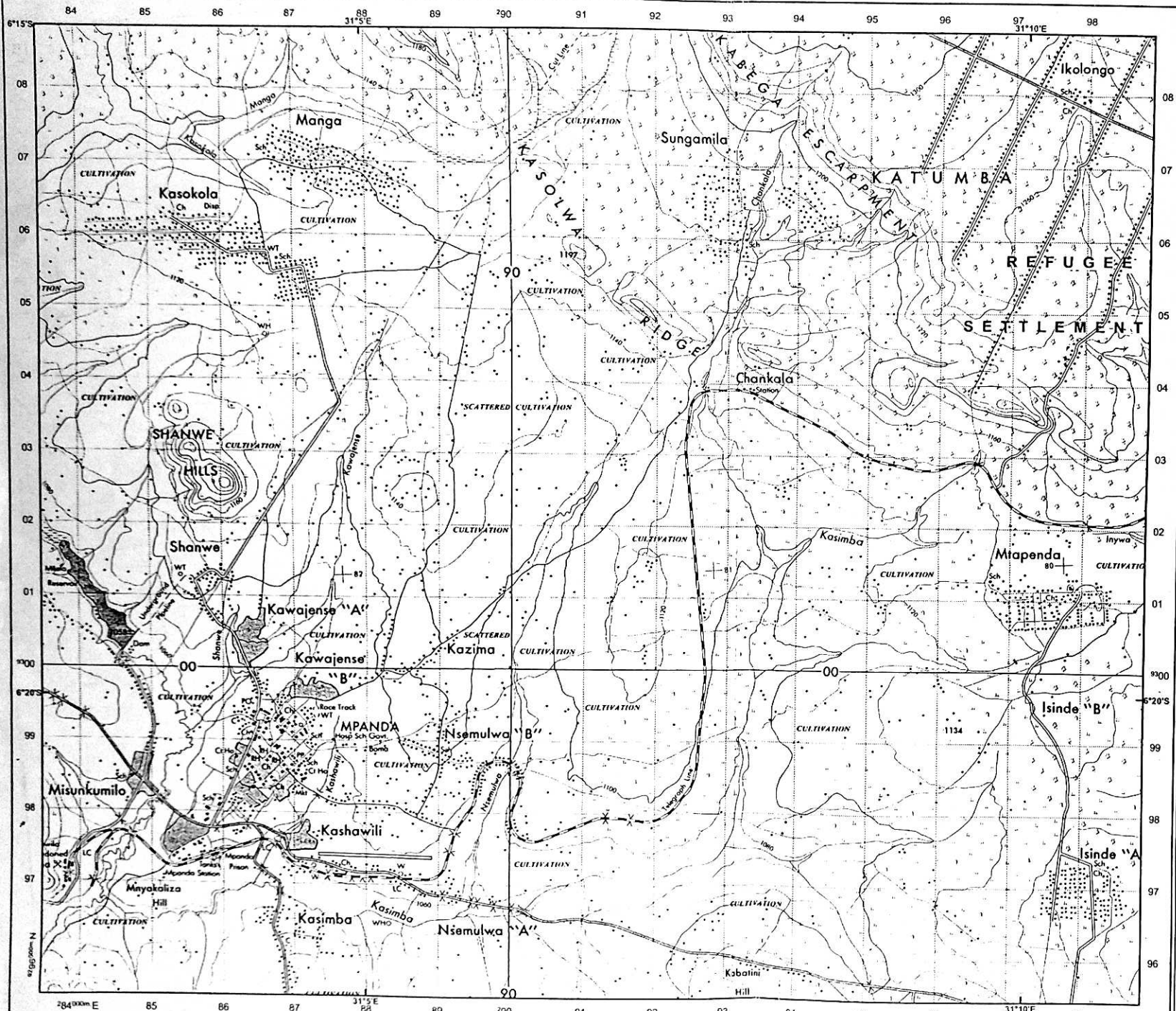
   (a) Ecosystem.

   (b) Habitat.

   (c) Micro-climate.

   (d) Climax vegetation.

13. With examples analyse the factors which influence soil formation.



MPANDA

Sheet 153/3

- Town or area with permanent buildings
- Other populated area, Houses
- All Weather Road Bound Surface — Road Number
- All Weather Road Loose Surface
- Dry Weather Road — Culvert, Bridge
- Main Track (Motorable)
- Other Track and Footpath
- Cut Line
- Railway, Siding, Station, Level Crossing
- Airfield Runway
- TelephoneLine
- Power Line
- Crater
- Steep Slope
- Spot Heights (in metres) — 204
- Contours (V.I 20m) — Depression
- Air Photo Principal Point with Film No. — JICA/91 178-5
- Watercourse, Waterfall, Rapids, Dam
- Watercourse (Wide), Waterfall, Rapids
- Water Tank, Windpump
- Borehole, Waterhole, Well, Spring
- Bund, Major Fence, Hedge, Wall
- Cliff
- Forest
- Thicket
- Bamboo
- Riverrine Trees
- Plantation :- (Coffee C, Sisal S, Sugar Su, Palm T, Wattle W, Cashew Nut CN)
- Woodland
- Scrub
- Scattered Trees
- Palms
- Mangroove Swamp
- Tree Swamp
- Papyrus Swamp, Marsh, Bog
- Seasonal Swamp
- Sand or Mud ..... Inland ..... Coastal
- Outcrop Rock
- Coral

ABBREVIATIONS

CBP	Cotton Buying Centre	M	Mission	PS	Police Station
CH	Church	Mkt	Market	RH	Rest House
CtHo	Court House	Mosq	Mosque	Sch	School
Disp	Dispensary	PO	Post Office	T	Telephone
Hosp	Hospital	PP	Police Post	Tg	Telegraph

Scale 1: 50,000

HEIGHTS IN METRES

1 0.5 0 1 2 Kilometers

Extract from Mpanda Sheet 153/3
Series Y742, Edition 1-TSD/ Ministry of Lands.
Government of the United Republic of Tanzania 1984