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 *2009 February, 10 Tuesday p.m.*

INSTRUCTIONS

1. This paper consists of **13** questions in sections A and B.
2. Answer **five (5)** questions choosing **two (2)** questions from section A and **three (3)** from section B. Question number **one (1)** is compulsory.
3. Credit will be given for the use of relevant sketch maps and diagrams.
4. A map extract of MPWAPWA sheet 163/4 is provided.
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 **two (2)** questions from this section.

Answer question 1 and any other question from this section. You are advised to spend not more than 50 minutes on question 1.
Question 1 = 36 marks
Question 2 to 5 = 16 marks each.

1. Study carefully the map extract of MPWAPWA, sheet 163/4 then answer the questions that follow.
   (a) Calculate the area covered by forest in square kilometres.
   (b) Calculate the gradient from the Bridge Grid Ref. 109898 to Chamsimba Hill Grid Ref. 180955.
   (c) By using sketch map describe the nature of relief and drainage of the mapped area.
   (d) What factors have influenced the distribution of vegetation in the area?
   (e) With evidence, comment on the economic activities of the area.
   (f) Examine the climatic conditions of the area.
   (g) Assess the nature of transport system of the area, shown on the map.

2. Study carefully the following data and answer the questions that follow.

Class interval	Frequency
0 − 4	2
5 − 9	11
10 −14	37
15 − 19	54
20 − 24	28
25 − 29	09
30 − 34	01
35 − 39	03

   (a) Find the range of grouped data.
   (b) Calculate the standard deviation.
   (c) What are the advantages and disadvantages of range in a given geographical data.

3. Using figure 1 below, describe how you would adjust the misclosure (error).

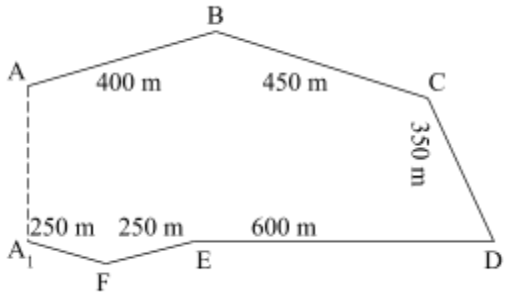


Fig. 1

4. (a) Differentiate aerial photographs from ground photographs.
   (b) Calculate the height of an area shot by a camera whose focal length is 132 mm, mounted on an aircraft which is flying at 10,500 m above the sea level. Suggested scale is 1:25,000.

5. (a) Explain the stages employed in constructing dot maps.
   (b) What are the shortcomings of dot maps?

SECTION B (48 marks)

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

6. "Plate tectonic theory is a new version of continental drift theory". Elaborate.

7. Describe the surface temperature and wind driven circulation in oceans.

8. Examine how the following wind depositional features are formed in a desert landscape.
   (a) Barchans
   (b) Longitudinal dunes
   (c) Transverse dunes

9. Examine the factors which are important in assessing soil fertility.

10. The present coastline definitely differs greatly from that of the last century. Give supporting evidence to prove the validity of the above statement.

11. Describe the following terms.
   (a) Air mass
   (b) Temperature inversion
   (c) Advection fog

(d) Katabatic wind

12. Examine the formation of lakes in a glaciated region.

13. “Variation in river volume is an inevitable circumstance”. Discuss.



MPWAPWA 2009 Sheet 163/4

- Town or area with permanent buildings
- Other populated area, Houses
- All Weather Road Bound Surface
- All Weather Road Loose Surface
- Dry Weather Road
- 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)
- Contours (V.I 20m)
- Air Photo Principal Point with Film No.
- 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 Kilometres

Extract from Mpwapwa Sheet 163/4
Series Y742, Edition 1-TSD Ministry of Lands
Government of the United Republic of Tanzania 1983