

THE UNITED REPUBLIC OF TANZANIA  
NATIONAL EXAMINATIONS COUNCIL

ADVANCED CERTIFICATE OF SECONDARY EDUCATION  
EXAMINATION

113/1

GEOGRAPHY I

(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 I63/4 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.

- Calculate the area covered by forest in square kilometres.
- Calculate the gradient from the Bridge Grid Ref. 109898 to Chamsimba Hill Grid Ref. 180955.
- By using sketch map describe the nature of relief and drainage of the mapped area.
- What factors have influenced the distribution of vegetation in the area?
- With evidence, comment on the economic activities of the area.
- Examine the climatic conditions of the area.
- 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

- Find the range of grouped data.
- Calculate the standard deviation.
- 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).

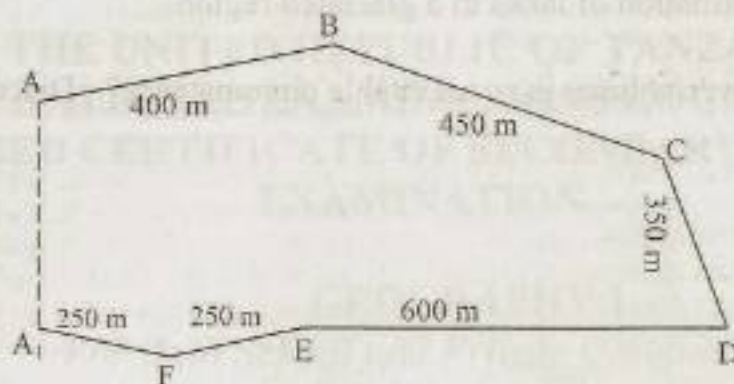


Fig. 1

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.





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

Telephone Line

Power Line

Crater

Steep Slope

Spot Heights ( in metres )

Contours ( V.I 20m )

Depression

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	Mision	PS	Police Station
CH Church	Mkt	Market	RH	Riad House
CHo 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 Mpwapwa Sheet 163/4  
Series Y742, Edition 1-TSD/ Ministry of Lands  
Government of the United Republic of Tanzania 1983