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).
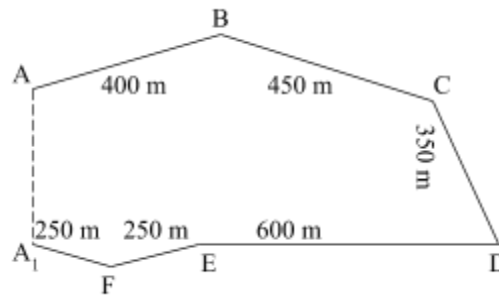

Fig. 1

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.

Legend

Symbol	Description
Town or area with permanent buildings	
Other populated area, Houses	
All Weather Road Bound Surface	Road / A15 Number
All Weather Road Loose Surface	
Dry Weather Road	Culvert Bridge
Main Track (Motorable)	
Other Track and Footpath	
Cut Line	Cut Line
Railway, Siding, Station, Level Crossing	Sta LC
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.	
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, 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

Map labels

Chomunyiha Hill
SCATTERED CULTIVATION
Mazae
Teachers Training College
Ilolo Farm
Mpwapwa
Health Centre
Ilolo
Vinghawe
Msungwi Hill
Mhangwa Hill
Chomasimba Hill
Nundiosi Hill
Iyoma
SCATTERED CULTIVATION
Ndemle
Sikoka
Pandambili Hill
Gulwe
Milestone
Kwakkwe
Usogola
Luhombelo
Telephone Line

36°25'E   36°30'E
6°20'S   6°25'S