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 **Tuesday, 03rd May 2016 p.m.**

Instructions

1. This paper consists of **nine (9)** questions in sections A and B.
2. Answer a total of **five (5)** questions; **two (2)** questions from section A and **three (3)** questions from section B. Question number **one (1)** is compulsory.
3. In section A, question number **one (1)** carries **25** marks and the rest **15** marks, while in section B each question carries **20** marks.
4. Credit will be given for the use of relevant sketch maps and diagrams.
5. Map extract of HANANG (sheet 84/4) For question number one (1) is provided.
6. Non programmable calculators may be used.
7. Cellular phones are **not** allowed in the examination room.
8. Write your **Examination Number** on every page of your answer booklet(s).

SECTION A (40 marks)

Answer question **number 1** and any other question from this section.

1. Study carefully the map extract of HANANG Sheet 84/4 provided then answer the following questions:

   (a) Calculate the area covered by Lake Balangida in square kilometers.

   (b) What type of landscapes does the map depict?

   (c) Identify the type of drainage pattern of the mapped area.

   (d) What are the three major indicators of climate in the area? Give evidence.

   (e) With evidence from the map, outline types of soil found in the area.

   (f) Explain four land uses in the mapped area.

   (g) A farmer was at grid reference 680160. He saw fire in the North East (4.2 kilometers).
      (i) Find the grid reference position of the fire.

      (ii) Name the physical obstacles which the farmer will face if he walks in a straight line to the position of the fire.

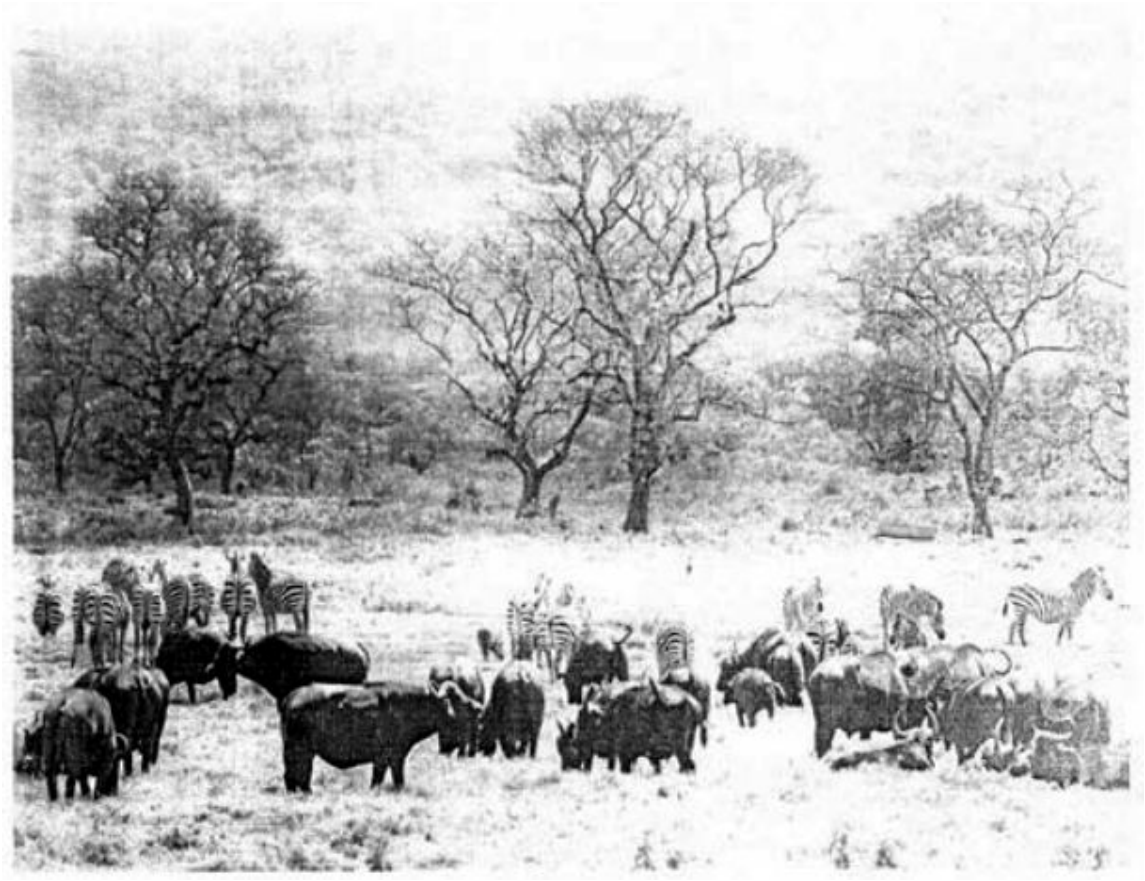
2. (a) Describe six shortcomings of using questionnaires in research data collection.

   (b) Analyse advantages and disadvantages of the case study design.

3. (a) Explain five qualities and three limitations of prismatic compass survey.

   (b) Classify obstacles encountered in chain survey.

4. Study carefully the following photograph and answer the questions that follow:



(a) Name the type of photograph.

(b) Explain three basic techniques for interpreting the type of the photograph named in (a) above.

(c) Identify the major economic activity that might take place in the area.

(d) Describe four factors that favour development of the major economic activity in (c) above.

(e) Briefly describe the natural causes of loss of biodiversity in the area.

(f) With evidences from the photograph, describe parts of the given photograph.

(g) Name three possible places in Tanzania where the photograph might have been taken.

SECTION B (60 marks)

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

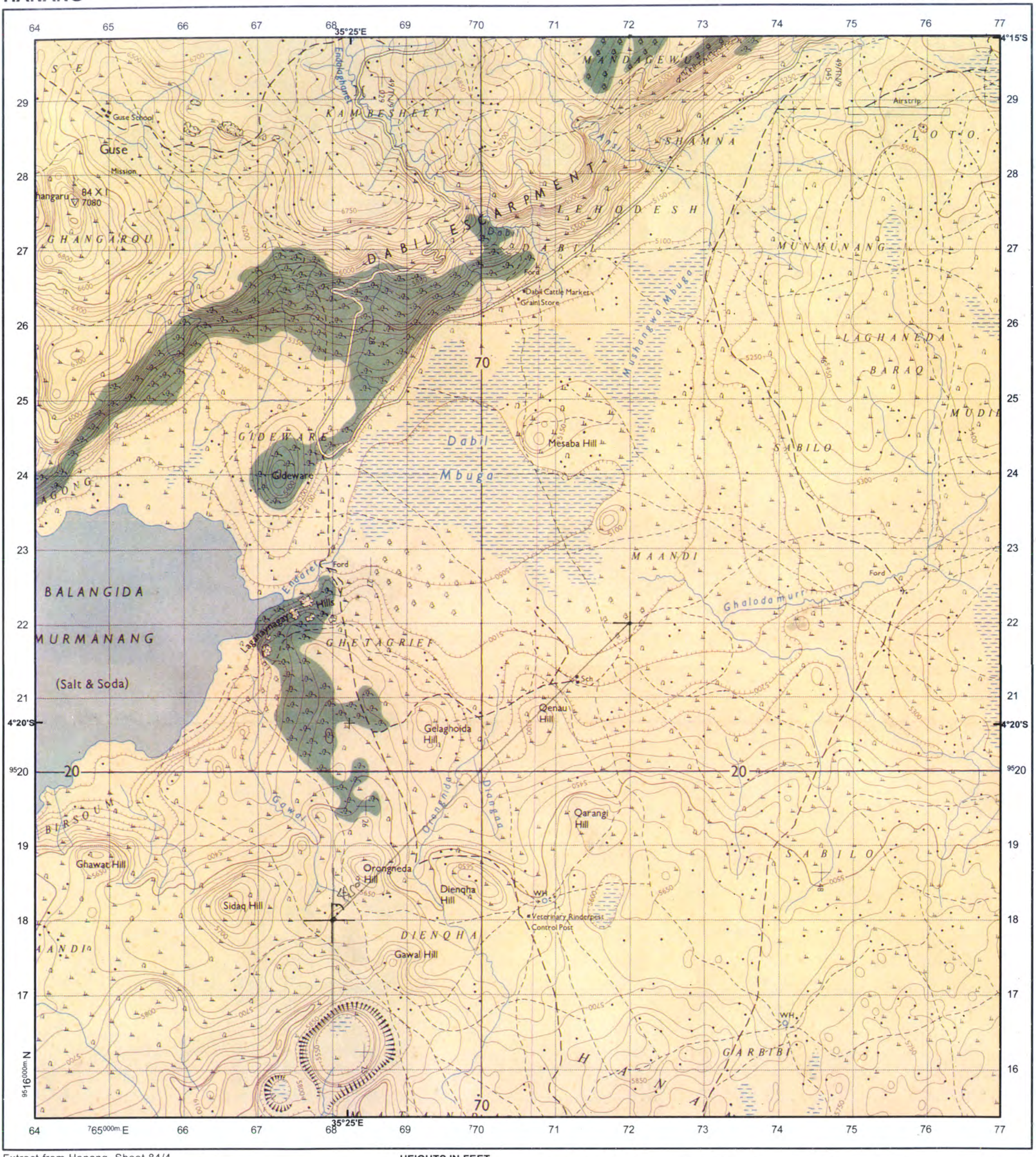
5. Explain eight factors responsible for the occurrence of river regime.

6. Analyse the causes of the plate's movements of the lithosphere.

7. Describe five meteological and edaphic effects on global vegetation variations.

8. Examine eight adaptive features of plants to desert hostile environment.

9. Describe volcanoes according to their mode of formation.



Extract from Hanang, Sheet 84/4
Series Y742, Edition 1-TSD/ Ministry of Lands.
Government of the United Republic of Tanzania 1964

HEIGHTS IN FEET

Scale 1: 50,000

1 0.5 0 1 2 3 Kilometers

- Town or area with permanent buildings
- Other populated area, Houses
- All Weather Road:- Bound Surface — Road A12 Number
- All Weather Road:- Loose Surface — Culvert, Bridge
- Main Track (Motorable)
- Other Track and Footpath
- Cut Line — Cut Line
- Railway, Siding, Station, Level Crossing — Sta, LC
- Railway Light
- Airfield Runway
- Telephone Line
- Telephone Line along Road
- Power Line
- Crater
- Steep Slope
- Spot Height (in metres) — 204
- Contours (V.I.50ft) ..... Depression — 6000, 5950, 5900
- Air Photo Principal Point with Film No. — JICA/91 R7B-5
- Watercourse, Waterfall, Rapids, Dams
- Watercourse, (Wide), Waterfall Rapids
- Watercourse (Indefinite)
- WateTank, Windpump
- Borehole, WateHole, Well, Spring
- Bund, Major Fence, Hedge
- Cliff
- Forest
- Thicket
- Bamboo
- Riverrine Trees
- Plantation:- ..... (Coffee C, Palm Sisal S, Sugar Su, Wattle W) — C
- Woodland
- Scrub
- Scattered Trees
- Palm Trees
- Mangroove Swamp
- Tree Swamp
- Papyrus Swamp, Marsh, Boge
- Seasonal Swamp
- Sand or Mud .....Inland.....Coastal
- Outcrop Rock
- Coral

ABBREVIATIONS

Ch	Church
CBP	Cotton Buying Post
CtHo	Court House
DC	District Commissioner
Disp	Dispensary
Hosp	Hospital
HC	Healthy Centrer
M	Mission
Mkt	Market
Mosq	Mosque
MoW	Ministry of Works
PO	Post Office
PP	Police Post
PS	Police Station
RH	Rest House
Sch	School
T	Telephone
TG	Telegraph