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, March, 15 2005 p.m.

Instructions

1. This paper consists of 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 Musoma, sheet 12/2, 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 question **one (1)** and any other question from this section. You are advised to spend not more that 50 minutes on question 1.

Question 1 = 36 marks
Questions 2 to 4 = 16 marks each.

1. Study carefully the map extract of Musoma, sheet 12/2 provided, then answer the questions that follow.

   (a) Calculate the forward and backward bearing of Ryamugasire Island grid 930340 from Buhare Home Economics Training Centre grid 868324.

   (b) Outlining steps, redraw the map provided using the map scale as 1:100,000 and show the following features:

   (i) Musoma – Butiama road.

   (ii) Musoma – Mugango road.

   (iii) Lake Victoria and Ryamugasire Island.

   (iv) Chanyakulinga and Nyabekwabi hills.

   (v) Airfield.

   (c) Examine the two maps and comment on the impact the change of map scale has on the map area and its contents.

   (d) Using the map extract given, write short notes on:

   (i) Land use.

   (ii) Settlement.

   (iii) Communication.

   (e) Suggest the possible economic and social influences that might have contributed to the location and growth of Musoma township.

2. The table below shows the mean annual percentage frequency of wind direction and wind speed. Study it carefully then answer the questions that follow.

WIND SPEED	N	NE	E	SE	S	SW	W	NW
<4 mph	1.3	3.2	2.6	3.4	2.2	4.6	2.0	3.6
4 –12 mph	2.4	4.0	3.1	2.8	1.7	4.4	3.5	2.5
13 – 24 mph	1.6	4.5	3.6	3.9	1.4	3.7	1.0	2.1
>24 mph	0.8	2.5	2.6	1.5	0.8	3.4	0.3	1.0
TOTAL	6.1	14.2	11.9	11.6	6.1	16.1	6.8	9.2

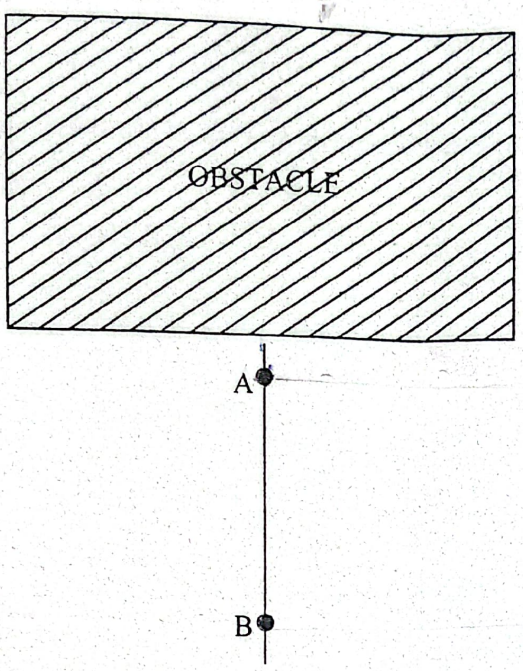
CALM = 18%

(i) Display the above data by means of Compound Wind Rose.

(ii) What are the merits and demerits of using this method in presenting statistics?

3. (a) [illegible] encountered in chain survey.

(b) Suppose A and B were two points on the line approaching an obstacle which you cannot see through, how would you conduct a chain survey across it?



4. Explain the concept of hypothesis testing.

5. (a) Describe the characteristics of extraterrestrial photographs.

(b) Discuss the importance of satellite images in meteorological studies.

(c) Show the utilities and drawbacks of satellite photographs.

SECTION B (48 marks)

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

6. Describe the geological structure which lead to the formation of waterfalls.

7. Use expressive examples to narrate the roles of plate tectonics theory on the formation of landforms.

8. Write short notes on the following:

(a) Plant succession. (b) Plant community.

9. How are the coastal characteristics related to emergence and submergence of coast lines?

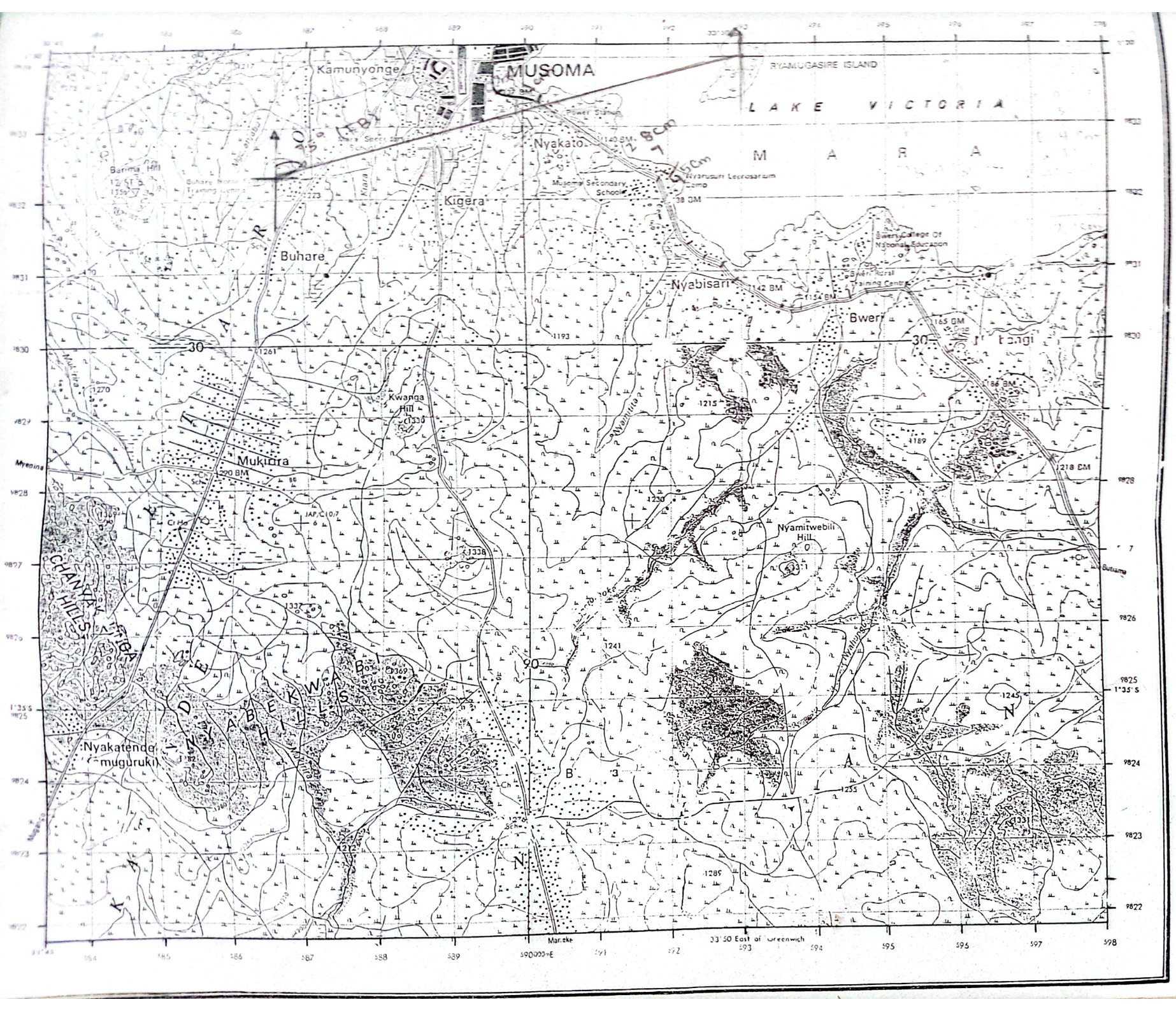
10. Investigate the theories which aspire to describe the occurrence of glacial periods.

11. (a) Define lapse rate. (b) How does lapse rate assist in the understanding of weather?

12. Give a clear classification of azonal soils.

13. Consider the global distribution of volcanoes and discuss:

(a) types of volcanoes (b) eruptive features of volcanoes.



MUSOMA

Built-up Areas
Villages
Houses
All Weather Roads Bound Surface
Loose Surface
Dry Weather Roads
Main Tracks (Motorable)
Other Tracks and Footpaths
Railways, Station, Siding, Level Crossing
Airfield Runways - Bound
Telephone Line
Power Transmission Line
Mosque, Church
Contours
Depression
Heights in Metres (Sound Level)
Photo Principal Point
Thicket
Bamboo
(Coffee C Sisal S Sugar Su
Plantation - Wattle
Woodland
Scrub
Scattered Trees
Palms
Mangrove Swamp
Tree Swamp
Papyrus Swamp, Marsh, Bog
Seasonal Swamp

ABBREVIATIONS

C	Church	Mkt	Market
Ct Ho	Court House	PS	Police Station
DHQ	Division Headquarters	PO	Post Office
Disp	Dispensary	PWD	Public Works Department
Hosp	Hospital	Sch	School

Borehole, Waterhole, Well, Spring oBH oWH oW oS

1 inch to approximately 0.8 miles

Mile 1 ¾ ½ ¼ 0 1 Mile

Feet 2000 0 2000

Metres 1000 500 0 1 Kilometres

HEIGHTS IN METRES

SCALE 1:50,000

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