

Name.....Index No.....Adm. No.....

Class..... Candidate's Signature..... Date.....

312/1

**GEOGRAPHY**

**TIME: 2¾ Hours**

## **KAMDARA JET 2016**

### *Instructions to Candidates*

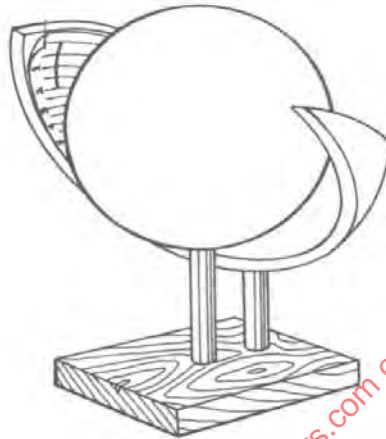
- a) *This paper has two sections: A and B*
- b) *Answer all the questions in Section A*
- c) *Answer question 6 and any other two questions from section B*
- d) *All answers must be written in the answer booklet provided*
- e) *This paper consists of 6 printed pages*
- f) *Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing*

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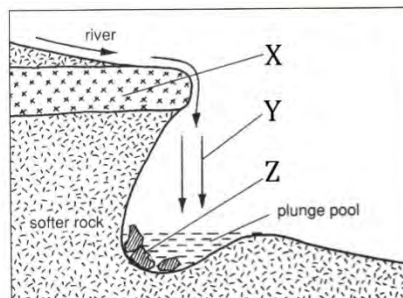
## SECTION A

Answer **all** the questions in this section

- 1 a) Name **two** elements of weather that can be recorded at a school weather station (2 marks)
- b) The diagram below represents a weather measuring instrument. Use it to answer the questions that follow.



- (i) Which element of weather is measured using the instrument shown above (1 mark)
- (ii) Describe how the above instrument is used (2 marks)
- 2 Explain how an overthrust fold is formed (4 marks)
- 3a) What is latitude? (2 mark)
- b) What is the time at Hola on  $40^{\circ}\text{E}$  when the time at Tema on  $0^{\circ}$  longitude is 12:00 noon (2 marks)
- 4a) State **two** causes of submergence of coasts (2 marks)
- b) Name **two** features resulting from submergence of highland coasts (2 marks)
- c) Explain how waves transport material by the longshore drift process (3 marks)
- 5a) State **two** factors which influence occurrence of surface run-off (2 marks)
- b) The diagram below shows a waterfall. Name the features marked X, Y and Z (3 marks)



## SECTION B

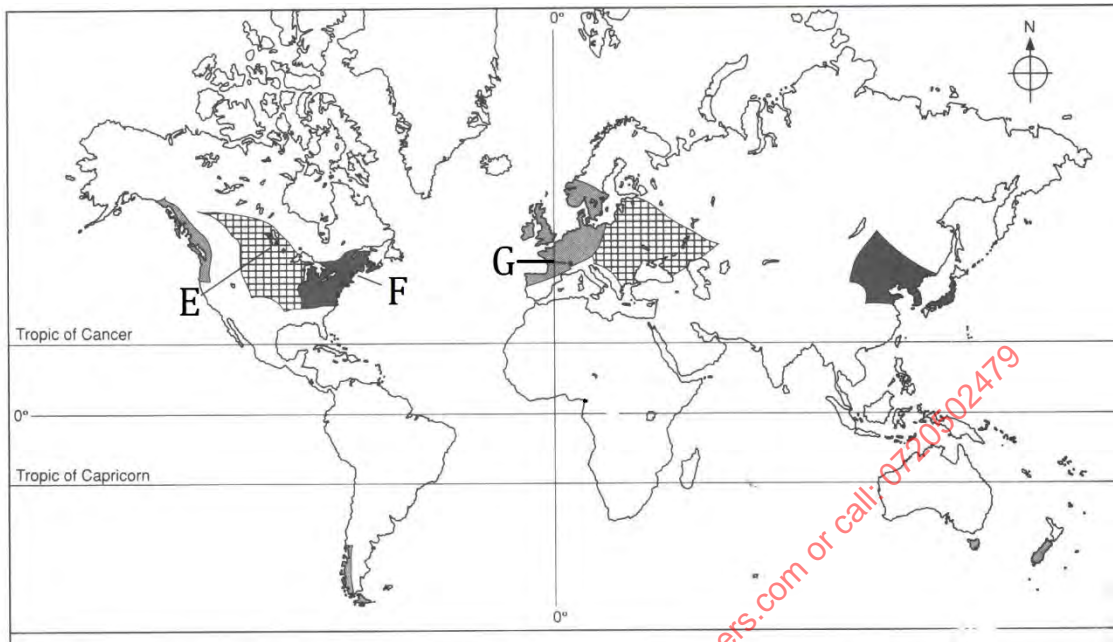
Answer **question 6** and any other **two** questions from this section

6. Study the map of Busia 1:50,000(sheet 101/1) provided and answer the following questions.

- a i) Give the six figure grid reference of the reservoir to the North West of the area covered by the map (1mark)
- ii) What is the altitude of the highest point in the area represented by the map (1mark)
- iii) Name the type of map being used in this question (1mark)
- iv) Give the **two** ways which this map has been identified (2 marks)
- v) Measure the distance of the loose surface road (B 8/3) from Northing 41 to the Northern edge of the map (2marks)
- b) i) Calculate the area to the west of the international boundary shown in the area covered by the map (2 marks)
- ii) Name **two** man made features found in Grid square 2928 (2 marks)
- c)i) Using a scale of 1cm to represent 40 metres, draw a cross section from Easting 30 Eastwards to Easting 36 along Northing 35.
- ii) On it mark and name the following
- a river (1 mark)
  - Loose surface road (1 mark)
  - Riverine vegetation (1 mark)
- iii) Calculate the Vertical exaggeration (VE) of the section (2 marks)
- d) i) Describe the distribution of settlement in the area covered by the map (4 marks)
- ii) Citing evidence from the map, explain two factors that favour trading in the area (4 marks)
- 7 a) What is climate?

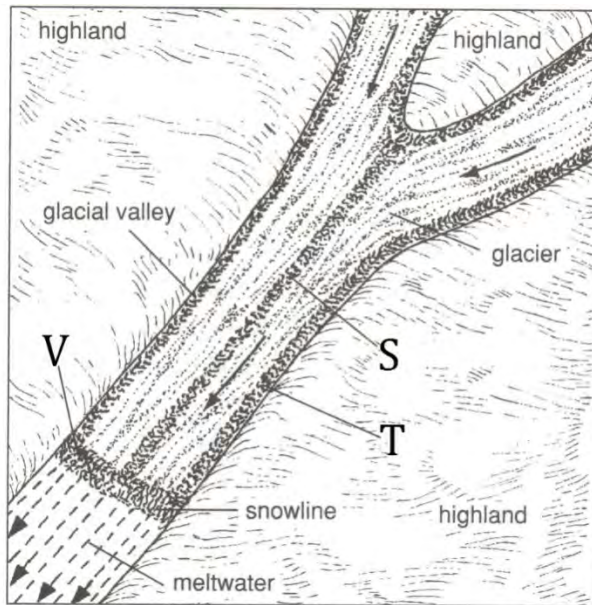
(2 marks)

The map below shows both climatic regions and vegetation types of the world. Use it to answer question b.



- b) Name the climatic regions marked E, F and G (3 marks)
- ii) Describe **five** characteristics of the Mediterranean climate (5 marks)
- iii) Identify the temperate grasslands found in
- Canada (1 mark)
  - Australia (1 mark)
- c) Explain **four** ways in which the desert vegetation has adapted to the harsh Climatic conditions. (8marks)
- d) Explain how the following factors influence the distribution of vegetation
- (a) Relief (2 marks)
  - (b) Soils (3 marks)
- 8 a) i) What is an ice sheet? (2 marks)
- ii) Give **two** reasons why there are no ice sheets in Kenya (2 marks)
- iii) Explain **three** factors influencing the movements of ice from the place of accumulation (6 marks)

b) The diagram below shows types of moraines in a valley glacier. Use it to answer below



Identify the moraines marked S, T and V

(3 marks)

c) i) Describe the formation of Lake Victoria

(4 marks)

ii) Explain how Lake Victoria has modified the climate in the area

(4 marks)

iii) State why some Lakes in the Rift valley have fresh water

(4 marks)

9 a) i) Name **two** features resulting from wind erosion

(2 marks)

ii) Describe the following processes of wind erosion

- Deflation
- Attrition

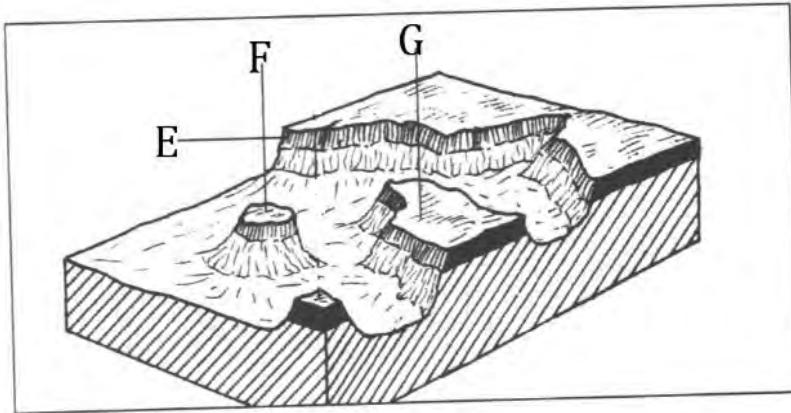
(3 marks)

(2 marks)

b) Explain **three** factors influencing wind deposition

(6 marks)

c) The diagram below shows features resulting from formation of water in an arid area. Use it to answer (i) and (ii)



- i Identify the features marked E F and G (3marks)
- ii Describe how the above features are formed (5 marks)
- d) Name **four** features formed in inland drainage basins in arid areas (4 marks)
- 10 a i) Name **three** components of soil (3 marks)
- ii) Differentiate between Zonal soils and intra zonal soils (2 marks)
- bi) Explain how the following processes of leaching occur
- Eluviation (3 marks)
  - Salinisation (3 marks)
  - Ferralization (3marks)
- ii) Explain **three** factors that cause soil erosion (6marks)
- c) You are supposed to carry out a field study on an eroded area
- i What information would you collect through observation that would indicate that the area is severely eroded (2marks)
- ii State **three** recommendations you would give to control soil erosion (3 marks)