

Kenya Certificate of Secondary Education

CHAMPIONS JET EXAMINATION

TERM 2 2024

312/1 - GEOGRAPHY - Paper One

JULY 2024 – 23/4 hours

Name: **Index No:**/.....

Candidate's Sign **Date**

Instructions to candidates

- (a) Write your name and index number in the spaces provided above.*
- (b) Sign and write the date of examination in the spaces provided above.*
- (c) All answers must be written in the answer booklet provided.*
- (d) This paper has **two** sections: **A** and **B**.*
- (e) Answer all the questions in section **A**.*
- (f) Answer **question 6** and any other **two** questions in section **B**.*
- (g) This paper consists of **5 printed pages**.*
- (h) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*
- (i) Candidates should answer the questions in English.*

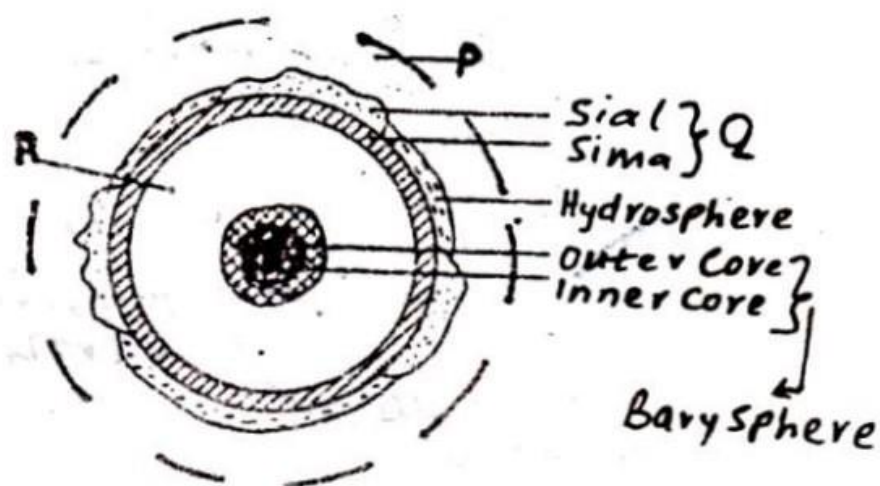
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Section	Questions	Maximum score	Candidate's score
A	1-5	25	
B	6	25	
		25	
		25	

SECTION A

Answer all the Questions in this section

1. The diagram below shows the structure of the Earth. Use it to answer the questions below.



- | | |
|---|----------|
| (a) Name the parts marked P, Q and R. | (3marks) |
| (b) Identify two minerals that constitute sima. | (2marks) |
| 2. (a) State two characteristics of sedimentary rocks. | (2marks) |
| (b) Give two examples of chemically formed sedimentary rocks. | (2marks) |
| 3. (a) Give three causes of an earthquake. | (3marks) |
| (b) Name two major earthquake zones of the world. | (2marks) |
| 4. a) Give three reasons why some lakes have fresh water. | (3marks) |
| b) State two ways in which lakes influence the natural environment. | (2marks) |
| 5. Using an illustration, describe the formation of a Sand spit; | (5marks) |

SECTION B

Answer question 6 and any other two questions in this section

6. Study the map of Mumias (sheet 101/2) provided and answer the questions that follow.

- a) i) What is the title of the provided map (1mark)
- ii) Convert the scale of the map into statement scale (2marks)
- iii) Identify two physical features found at grid square 5941 (2marks)
- iv) What is the six figure grid reference for the school at Mungabo (2marks)
- b) i) What is the latitudinal and longitudinal extent of the south eastern corner of the map (2marks)
- ii) Identify two types of natural vegetation south of Northing 36 (2marks)
- iii) Measure the distance of river Lusimu from the junction of river Nzoia to the bridge in kilometres (2marks)
- c) Describe the drainage of the area covered by the map (6marks)
- d) Citing evidences from the area covered by the map, explain three problems that will be encountered if a road is to be constructed in the area covered by the map (6marks)

7. The diagram below shows some intrusive features formed by vulcanicity.

Use it to answer question (a)



- a) Name the features marked E, F and G. (3marks)

b) Explain how the following features are formed

A Sill (5marks)

Hot springs (5marks)

c) Describe four characteristics of a composite volcano (4marks)

d) Explain four ways in which volcanic mountains positively influence human activities (8marks)

8. (i) What is a natural vegetation? (2marks)

(ii) Describe the characteristics of the savanna vegetation. (6marks)

(iii) Name the temperate grasslands found in the following countries:

Canada (1mark)

Russia (1mark)

Australia (1mark)

(b) Explain how the following factors influence the distribution of vegetation:

(i) Relief (2marks)

(ii) Soils. (4marks)

(c) You are planning to carry out a field study in a forest.

(i) Give four reasons why it is important to seek permission from the school administration. (4marks)

(ii) List four sources of information you are likely to use before the actual field study. (4marks)

9. (a) (i) What is the difference between weathering and mass wasting? (2marks)

(ii) Apart from plants, give three other factors that influence the rate of weathering (3marks)

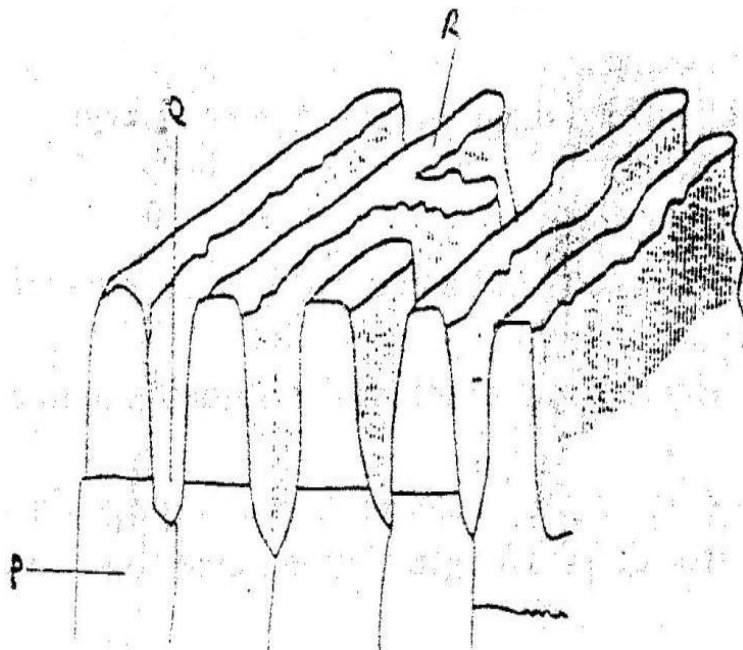
(iii) Explain two ways in which plants cause weathering (4 marks)

(b) (i) List two types of mass wasting other than soil creep (2 marks)

(ii) Explain three factors that cause soil creep. (6 marks)

(c) Explain four effects of mass wasting on the environment. (8 marks)

10. The diagram below shows some features of a Karst scenery. Use it to answer questions (a)



(a) Name the features marked P, Q, and R. (3marks)

(b) Explain how the following factors influence the amount of underground water in limestone areas;

(i) Rainfall (4marks)

(ii) Vegetation cover (4marks)

c) (i) Apart from stalagmites, name three other underground features

formed in limestone areas (3marks)

(ii) With the aid of a diagram, describe how a stalagmite is formed (8marks)

(d) Give three reasons why there are few settlements in karst landscapes (3marks)