

THE KENYA NATIONAL EXAMINATIONS COUNCIL  
Kenya Certificate of Secondary Education

312/1

— GEOGRAPHY —

Paper 1



Nov. 2019 – 2<sup>3</sup>/<sub>4</sub> hours



Name ..... Index Number .....

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

Instructions to candidates

- (a) Write your name and index number in the spaces provided above.
- (b) Sign and write the date of the examination in the spaces provided above.
- (c) This paper has **two** sections: **A** and **B**.
- (d) Answer **all** the questions in section **A**.
- (e) Answer **question 6** and any other **two** questions from section **B**.
- (f) All answers must be written in the spaces provided after Question 10.
- (g) **This paper consists of 20 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.**

For Examiner's Use Only

Section	Questions	Maximum Score	Candidate's Score
A	1–5	25	
B	6	25	
		25	
		25	
Total Score			

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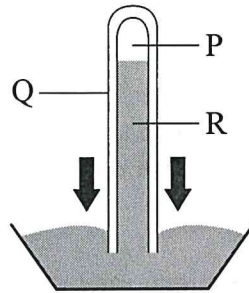


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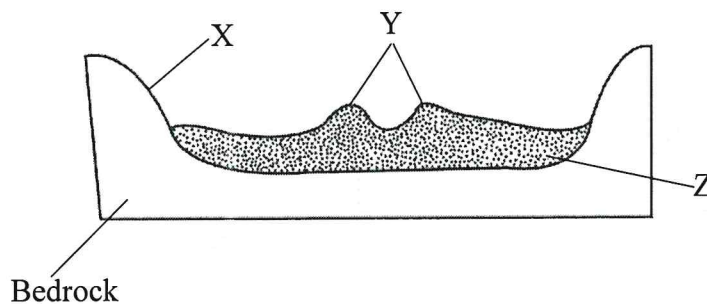
## SECTION A

Answer *all* the questions in this section.

1. (a) Distinguish between Geography and Environment. (2 marks)
- (b) Identify the **two** branches of Geography. (2 marks)
2. (a) The diagram below represents an instrument for measuring atmospheric pressure. Name the parts marked P, Q and R. (3 marks)



- (b) State **three** benefits of weather forecasting to human activities. (3 marks)
3. Give **four** proofs that support the theory of continental drift. (4 marks)
4. (a) Give **three** factors that influence the way a river transports its load. (3 marks)
- (b) The diagram below represents a cross-section of a flood plain. Name the features marked X, Y and Z. (3 marks)



5. (a) State the **two** causes of vertical movement of the ocean water. (2 marks)
- (b) List **three** types of ocean tides. (3 marks)



## SECTION B

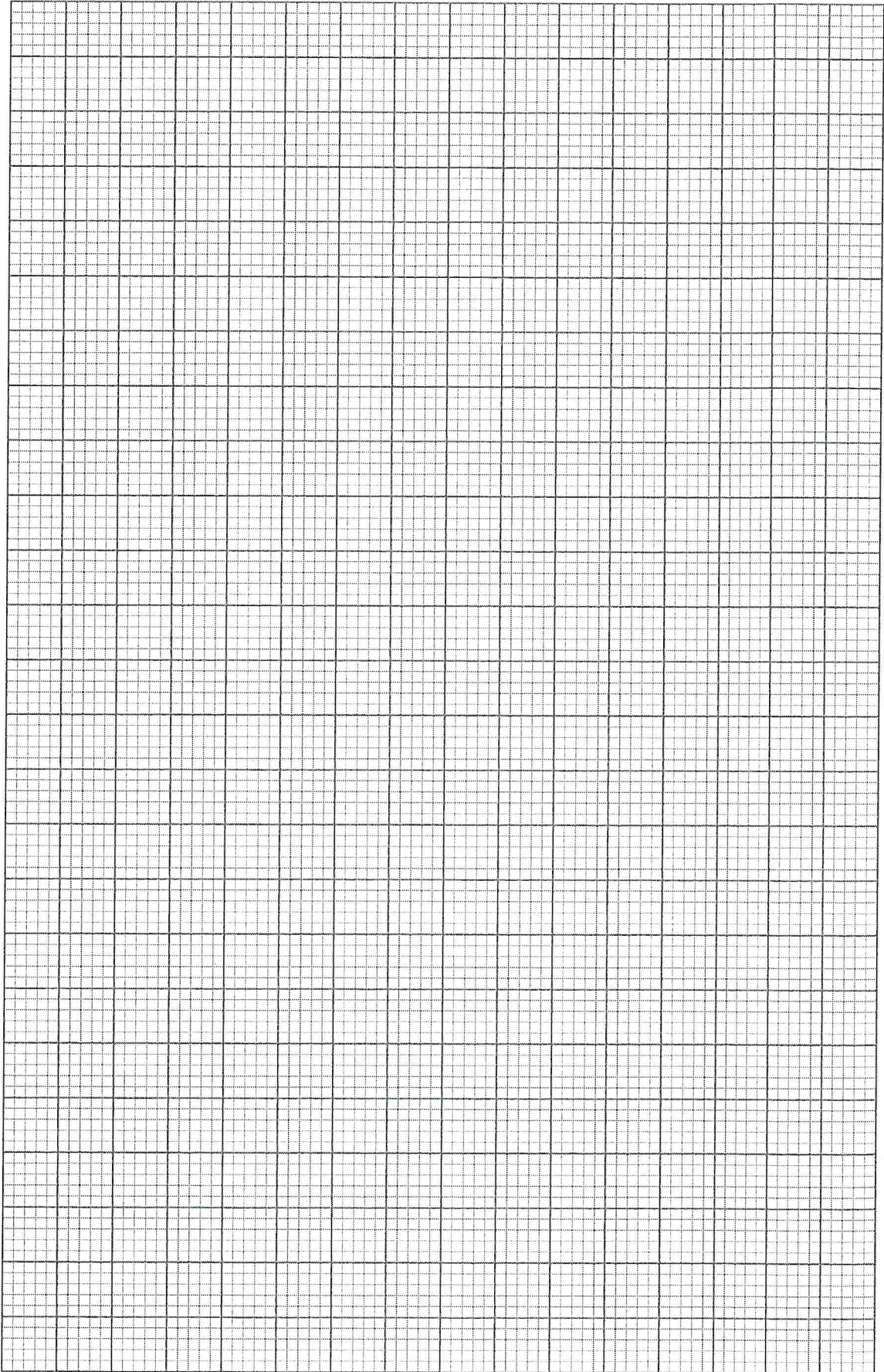
*Answer question 6 and any other two questions from this section.*

6. Study the map of Yimbo 1:50,000 (sheet 115/1) provided and answer the following questions.
- (a) (i) What is the magnetic variation of the map? (2 marks)
- (ii) Identify **two** natural features found at the grid square 3597. (2 marks)
- (iii) Identify the **two** countries represented in the area covered by the map. (2 marks)
- (b) (i) Give the direction of the trigonometrical station at the grid square 2789 from the air photo principal point at Nyagoma Mission School. (2 marks)
- (ii) Measure the length of the provincial boundary to the North West of the area covered by the map. Give your answer in kilometres. (2 marks)
- (c) (i) Give evidence that show the area covered by the map receives low rainfall. (3 marks)
- (ii) Explain how each of the following factors have influenced the distribution of settlements in the area covered by the map:
- I. Transport (2 marks)
- II. Vegetation (2 marks)
- III. Relief (2 marks)
- (d) Describe the drainage of the area covered by the map. (6 marks)
7. (a) Using examples from East Africa, describe each of the following types of volcanoes:
- (i) Active Volcano (3 marks)
- (ii) Dormant Volcano (4 marks)
- (b) Using a well labelled diagram, explain how each of the following features were formed:
- (i) Composite Volcano (6 marks)
- (ii) Volcanic plug (4 marks)
- (c) Explain **four** negative effects of vulcanicity (8 marks)

8. (a) (i) Apart from inter tropical convergence zone (ITCZ), list **four** physical factors that influence climate. (4 marks)
- (ii) Give **four** characteristics of inter tropical convergence zone (ITCZ). (4 marks)
- (b) (i) Name the **three** equatorial climatic regions of Kenya. (3 marks)
- (ii) Describe the tundra climate. (6 marks)
- (c) Explain **four** human causes of desertification. (8 marks)
9. (a) (i) Define an ocean. (2 marks)
- (ii) Explain the **three** causes of variation in the amount of salt in ocean water. (6 marks)
- (b) (i) Identify **three** processes involved in wave erosion. (3 marks)
- (ii) With the aid of well labelled diagrams, describe the processes through which a wave cut platform is formed. (8 marks)
- (c) You intend to carry out a field study on types of features resulting from wave deposition along the coast.
- (i) Identify **three** methods you would use to record data. (3 marks)
- (ii) Give **three** wave depositional features you are likely to observe during the field study. (3 marks)
10. (a) List **three** components of soil. (3 marks)
- (b) Explain each of the following in relation to the classification of soil:
- (i) Zonal (2 marks)
- (ii) Intrazonal (2 marks)
- (iii) Azonal (2 marks)
- (c) Explain **three** causes of soil degeneration. (6 marks)







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