**312/2**

**GEOPGRAPHY**

**Paper 1**

**NOV/DEC**

**Index Time: 23/4 Hours**

**NAME---------------------------------------Index No--------------------------------------**

**DATE-------------------------------signature---------------------------**

**GEOGRAPHY PAPER 312/1**

 **EXAMINATION – 2021.**

 **END OF TERM II NOV- DEC.**

 **FORM IV**

**Kenya Certificate of Secondary Education (K.C.S.E)**

## INSTRUCTIONS TO CANDIDATES

* This paper contains sections A and B.
* Answer all questions in Section A.
* In section B, answer questions 6 and any other two.
* All answers must be written in the spaces in the question paper.

SECTION A

**Answer all questions in this section (25 marks)**

1) The diagram below represents structure of the earth.

a) Use it to answer questions that follow.

H

E

F

i) Name the boundaries marked E and F. (2 marks)

 E----------------------------------------------------------F------------------------------------------------

ii) Identify **two** minerals that make up the layer marked H. (2 marks)

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b) Give **two** effects of the rotation of the earth on its axis. (2 marks)

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2)a) Define the term magmatic water (2 marks)

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b) List **three** surface features on Karst landscape (3 marks)

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3).a) Define the term vegetation (2 marks)

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

i) Relief (2 marks)

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ii) Soils (2 marks)

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4) State **four** indicator of occurrence of sol creep in an area (4 marks)

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5) a) Name **two** types of submerged highland coasts (2 marks)

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b) Identify **two** resultant features of the emerged highland coasts (2 marks).

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**Section B. Answer question 6 and any other two. 75 marks**

Q.6 Study the map of **Kijabe** provided to answer the questions that follow.

(a) (i). Identify the tittle of the map provided. (1 mark).

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 (ii). Give the latitudinal extent of the map given. (2marks)

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(ii). Identify any **two** methods used to represent relief in the map provided. (2 marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------(ii). Identify the feature in grid reference 402003. ( 1 mark)

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b)(i). Determine the length of all-weather road bound surface from grid reference 2589 to the junction at petrol station in kilometers. (2 marks)

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(ii). Identify **three** natural vegetation in the area covered by the map. (3marks)

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(ii). Describe the drainage of the area covered by the map. ( 6 marks)

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(c )(i). Explain **three** social activities found in the area covered by the map. (6 marks)

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(ii). Give **two** proofs that suggests lumbering is taking place in the area covered by the map. ( 2 marks)

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7. a) i) Give **three** reasons why weather forecasting is important (3 marks)

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 ii) State **three** conditions that lead to fog formation. (3 marks)

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b) Explain how the following factors influence climate.

 i) Aspect ( 2 marks)

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 ii) Altitude ( 2 marks)

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 iii) Distance from the sea. (2 marks)

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c) Using a well labeled diagram, describe the formation of orographic rainfall. (6 marks)

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d) i) State **two** advantages of studying weather through fieldwork. (2 marks).

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Students from Turuturu Secondary conducted a field study on weather in a weather station. ii) Formulate a suitable hypothesis they could have used for the study. (2 marks)

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iii) State **three** follow-up activities they would carry out after the study. (3 marks)

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8 a) Identify **three** ways in which ice moves. (3marks)

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 b) Describe plucking as a process in glacial erosion. (4marks)

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c) i) Using a well labeled diagram, describe the formation of a pyramidal peak. (6marks)

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 ii) Explain **three** factors that lead to glacial deposition. (6marks)

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d) You are required to carry out a field study on erosional features in glaciated lowland area

 i) Give **three** reasons why you would require a working schedule (3marks)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------ ii) Give **three** erosional features in the lowland areas they would have identified. (3marks

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 ii) With the aid of a well labeled diagram, describe how a Rift Valley is formed by tensional forces. (8marks)

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 b) Explain **fou**r effects of faulting (8marks)

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c) Students are planning to carry out a field study of an area affected by faulting

 i)State **four** reasons why it is important for the students to have a pre-visit of the area. (4marks)

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ii)One of the ways they would use to collect data is through direct observation. Give three disadvantages of direct observation in the study of such an area. (3marks)

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10. a) (i) Name **three** major deserts found in Africa (3 marks)

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(ii) Give **two** processes in which wind erodes the earth’s surface. (2 marks)

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(iii) Explain **three** ways in which wind transports its load. (6 marks).

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b) Using well labeled diagrams, explain how the following desert features are formed;

(i) Yardangs. (5 marks)

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(ii) Mushroom blocks. (6 marks)

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c) The diagram below represents features resulting from wind deposition in a desert

 Use it to answer questions that follow.



(i) Name the above feature (1 mark)

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(ii) Name parts marked X and Y

 X------------------------------------

 Y------------------------------------- (2 marks)

 @ 2021 Nov/Dec. This is the last printed page.