**TERM 2-2022**

**GEOGRAPHY (QUESTION PAPER)**

**FORM 4**

**TIME 2¾ HOURS**

**PAPER 1**

Name………………………………………………………………… Adm No………………………………..

School…………………………………………………………………. Class…………………………………….

Signature……………………………………………………………….. Date………………………………………

***Instructions to candidates***

1. *Write your name, admission number and class in the spaces provided above.*
2. *This paper has* ***two*** *sections:* ***A*** *and* ***B***
3. *Answer* ***all*** *the questions in section* ***A***
4. *Answer* ***question 6*** *and any other* ***two*** *questions from section* ***B***
5. ***This paper consists of 14 printed pages.***
6. ***Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.***

**For Examiner’s Use Only**

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| --- | --- | --- | --- |
| **Section** | **Questions** | **Maximum**  **Score** | **Candidate’s**  **Score** |
| **A** | **1 – 5** | **25** |  |
| **B** | **6** | **25** |  |
|  | **25** |  |
|  | **25** |  |
|  | **Total Score** | **100** |  |

**SECTION A**

*Answer* ***all*** *questions in this section*

1. (a) Define the term equinox. (2 marks)

(b) If the local time at 750W is 8.00 a.m., what is the local at the longitude 350E? (3 marks)

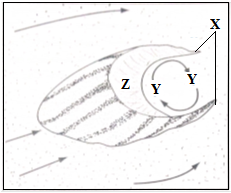
1. (a) Give **two** examples of non-metallic minerals. (2 marks)

(b) State **three** ways through which sedimentary rocks are formed. (3 marks)

1. (a) What is natural vegetation? (2 marks)

(b) State **three** characteristics of Mediterranean type of vegetation. (3 marks)

1. The diagram below shows a barchan. Use it to answer question (a).



(a) Name (i) the feature marked **X**. (1 mark)

(ii) the air current marked **Y**. (1 mark)

(iii) the slope marked **Z**. (1 mark)

(b) Give **two** ways in which wind transport its load in deserts. (2 marks)

1. (a) Differentiate between a catchment area and a watershed. (2 marks)

(b) Give **three** features that result from river rejuvenation. (3 marks)

**SECTION B**

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

1. Study the map of KIJABE 1:50,000 (134/3) provided to answer the following questions.
2. (i) What is the approximate height of Kijabe hill? (1 mark)

(ii) Give the six grid reference of the school at Mai Mahiu in the southern area. (2 marks)

(iii) Calculate the area covered by the thicket to the west of the rail way line. (2 marks)

1. (i) What is the approximate location of Kijabe Railway Station in terms of latitude and longitude? (2 marks)

(ii) Identify **three** methods used to represent relief on the area covered by the map. (3 marks)

1. Draw a rectangle measuring 10cm by 5cm to represent the area enclosed by easting 30 and 40 and Northing 95 and 00. (1 mark)

On it mark and name the following features:

* Railway (1 mark)
* All weather road bound surface (1 mark)
* Forest (1 mark)
* Murrum pit (1 mark)

1. Citing evidence from the map, identify **two** economic functions of Kijabe centre. (4 marks)
2. Explain **three** factors influencing the distribution of vegetation in the area covered by the map. (6 marks)

1. (a) (i) What is plate tectonics? (2 marks)

(ii) Explain **three** evidences supporting the continental drift theory. (6 marks)

(b) (i) Apart from fold mountains, give **three** other features resulting from folding. (3 marks)

(ii) With the aid of well labeled diagrams, describe how movement of tectonic plates may lead to

formation of fold mountains. (8 marks)

(c) Explain **three** positive significance of fold mountains to human activities. (6 marks)

1. (a) (i) Define the term climate. (2 marks)

(ii) Explain how the following factors influence the climate of an area.

* latitude (2 marks)
* distance from the sea (2 marks)

(b) The table below shows temperature readings at a weather station.

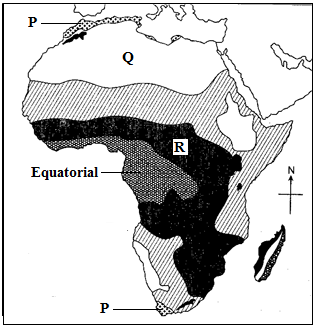
|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Day | MON. | TUE. | WED. | THUR. | FRI. | SAT. | SUN |
| Max (oC) | 26 | 25 | 26 | 24 | 27 | 27 | 24 |
| Min. (oC) | 15 | 17 | 17 | 13 | 19 | 18 | 17 |

Calculate;

(i) the diurnal temperature range for Monday. (2 marks)

(ii) the mean daily temperature for Friday. (2 marks)

(c) Study the climate map of Africa below and answer the questions that follow.



(i) Name the climatic regions marked **P**, **Q** and **R**. (3 marks)

(ii) Describe the characteristics of equatorial climate. (6 marks)

(d) Explain **three** ways in which vegetation has adopted to the climatic conditions in the region **Q**. (6 marks)

1. (a) (i) What is an artesian basin? (2 marks)

(ii) Explain **three** factors which influence the formation of features in limestone areas. (6 marks)

(b) (i) A part from stalagmites, name **two** other underground features in limestone areas. (2 marks)

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

(c) Your supposed to carry out a field study on limestone region.

(i) Give **two** reasons why you would need a map of the area of study. (2 marks)

(ii) State **two** ways you would prepare for the study. (2 marks)

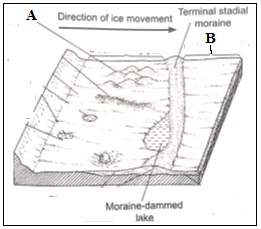
(iii) Give **three** reasons why you are likely to find few settlements in the study area. (3 marks)

1. (a) (i) Define the term glacier. (2 marks)

(ii) Give **two** processes of glacial erosion. (2 marks)

(b) Explain **three** conditions that lead to glacial deposition. (6 marks)

(c) The diagram below shows features resulting from glacial deposition in lowlands.



(i) Identify the features labeled **A** and **B**. (2 marks)

(ii) Describe how a terminal moraine is formed. (3 marks)

(d) Explain **five** positive significance of glaciation in lowland areas. (10 marks)

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