Term 2 - 2022

GEOGRAPHY

(QUESTION PAPER I )

FORM FOUR

TIME: 2 3/4 HOURS

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. *All answers must be written in the spaces provided after Question 10.*
6. ***This paper consists of 14 printed pages.***
7. ***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** | **Candidate’s**  **Score** | **Maximum**  **Score** |
| **A** | **1 – 5** |  | **25** |
| **B** | **6** |  | **25** |
|  |  | **25** |
|  |  | **25** |
|  | **Total Score** |  | **100** |

**SECTION A**

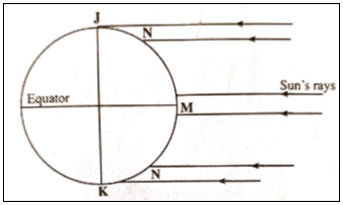
***Answer ALL questions in this section.***

(a) Name the first **two** planets of the solar system. (2 marks) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) State **three** effects of the rotation of the earth on its axis. ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(3 marks)

The diagram below shows the angles of the sun’s rays at different altitudes when the sun is overhead at the equator. Use it to answer question (a) and (b).



Name the parts of earth’s surface marked **J** and **K**. (2 marks) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

Give **two** reasons why the intensity of insolation is higher at **M** than at **N**. (2 marks) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(a) Identify the temperate grasslands found in the following countries.

(i) Canada (1 mark) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(ii) Russia (1 mark) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(iii) Australia (1 mark) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) Give **two** reasons why the Tundra region has scanty vegetation. (2 marks) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(a) Identify **two** sources of water found in a lake. (2 marks) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) Give **three** ways through which lakes are formed. (3 marks) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(a) Give **three** factors that determine soil leaching. (3 marks) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. (b) State **three** ways in which mulching helps in soil conservation. (3 marks) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

**SECTION B**

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

Study the map of Nyeri 1:50,000 (sheet 120/4) provided and answer the following questions.

1. (i) Identify **two** map sheets to the eastern part of Nyeri. (2 marks)

(ii) Name **two** administrative units found in Nyeri. (2 marks)

(iii) Calculate the magnetic declination of the area covered by the map as at 1978. (3 marks)

1. (i) Give **three** types of natural vegetation found in the area covered by the map. (3 marks)

(ii) Measure the length of the road D 432 in the southern part from Unjiru junction to Kangaita market. Give your answer in kilometers. (2 marks)

1. Using a vertical scale of 1cm to represent 50 metres;

(i) Draw a cross section from grid reference 680630 to 730650. (4 marks)

(ii) On the cross section, mark and name the following;

* Hill (1 mark)
* River (1 mark)
* Road D 449 (1 mark)

1. Citing evidence from the map, identify **three** economic activities in the area covered by the map. (6 marks)
2. (a) (i) Define the term folding. (2 marks)

(ii) Name **two** fold mountains that were formed during Alpine orogeny. (2 marks)

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

(ii) With the aid of a diagram, describe the formation of an overthrust fold. (6 marks)

1. Explain **three** positive effects of fold mountains on human activities. (6 marks)
2. Members of your class are planning to carry out a field study on an area that has undergone folding process.

(i) Give **three** ways you would prepare for the study. (3 marks)

(ii) State **three** advantages of studying landforms through field work. (3 marks)

1. (a) (i) What is weathering? (2 marks)

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

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

(b) Describe the following processes of weathering:

(i) Block disintegration (4 marks)

(ii) Carbonation (4 marks)

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

1. (a) (i) Apart from surface run off, give **two** other processes in the hydrological cycle. (2 marks)

(ii) State **three** factors that determine the amount of surface run off. (3 marks)

(b) Explain **three** factors that influence the transportation of materials by a river. (6 marks)

(c) (i) What is river rejuvenation? (2 marks)

(ii) Explain **three** conditions that lead to rejuvenation of a river. (6 marks)

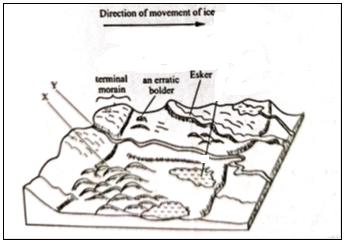
(d) Explain **three** negative effects of rivers to the human environment. (6 marks)

1. (a) (i) What is an ice sheet? (2 marks)

(ii) Explain **three** factors that influence the movement of ice from the point of accumulation. (6 marks)

(b) Describe how an arête is formed. (6 marks)

(c) The diagram below shows features resulting from glacial deposition on a lowland area.



(i) Name the features marked **X** and **Y**. (2 marks)

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

(d) Explain **three** positive effects of glaciation in lowland areas. (6 marks)

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