**SUNRISE 2 EVALUATION EXAMINATIONS TERM 2 -2022**

**312/ 1 - GEOGRAPHY** - **PAPER 1**

**2 ¾ hours**

**Name …………………………………………………………………… ADM NO …………CLASS………**

**Candidate’s Signature ………………………... Date …………………….**

**GEOGRAPHY EXAMINATION**

**INSTRUCTIONS TO CANDIDATES**

* This paper has two sections **A** and **B.**
* Answer ***all*** the questions in section **A**, in section **B** answer question 6 and any other two questions.
* All answers must be written in the answer sheets provided.

**For Examiner’s Use Only**

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

**SECTION A**

1. a) Explain the origin of the earth and the solar system according to the

Nebular cloud theory. (4mks)

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b) Name **two** other theories that explain the origin of the earth and the solar system apart from the Nebular cloud theory. (2mks)

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1. a) List **two** zones of transition in the atmosphere. (2mks)

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b) Give **three** evidences that the interior of the earth is hotter. (3mks)

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1. a) Define the following terms.

i) River divide (1mk)

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ii) A confluence (1mk)

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iii) A river profile (1mk)

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b) List **three** factors that influence the formation of a river. (3mks)

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1. How is an oasis formed? (4mks)

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1. List **four** characteristics of Mediterranean climate. (4mks)

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**SECTION B**

**ANSWER QUESTION 6 AND OTHER TWO QUESTION FROM THIS SECTION**

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

1. a) i) Give the latitudinal and the longitudinal position of the south west corner of the map extract (2mks)

ii.) Calculate the magnetic declination of the map extract (2mks)

b. i) Which adjoining sheet is to the S.E of the area covered by the map? (1mk)

ii.) What is the general flow of river Chanya (2mks)

iii.) Give three social function of Nyeri town (3mks)

c.) Calculate the area of Nyeri Forest to the East of Easting 69 and North of Northing 56. (Give your answer in Kilometre squared(Km2)  (2mks)

d.) Citing evidence from the map. Give

i.) Two reasons why the area is covered by the map is suitable for coffee growing (4mks)

ii.) Two factor that favor saw milling in the area covered by the map (4mks)

e.) Describe drainage of the area covered by the map (5mks)

7. a) i) What is faulting? (1mk)

ii) With the use of a well labeled diagram explain how a reverse

fault occurs. (5mks)

iii) State **two** other types of faults apart from reverse faults. (2mks)

b) Describe how a rift valley forms through tensional forces. (4mks)

c) Explain **three** ways in which features resulting from faulting are of

economic importance to man. (6mks)

d) You intend to carry out a field study of the landforms around your

school.

* + 1. State **two** hypotheses you are likely to formulate for the study. (2mks)
    2. Apart from dividing your class into groups, in what three other

ways will you prepare for the study. (3mks)

* + 1. In what **two** ways is dividing the class into groups important? (2mks)

8. a) i) Differentiate between intrazonal and azonal soils. (2mks)

ii) Give **three** examples of a zonal soils (3mks)

b) i) Explain **four** factors that influence soil formation. (8mks)

ii) Give **two** factors that determine the colour of soil (2mks)

c) i) What is soil erosion. (2mks)

ii) Explain **four** ways in which vegetation prevents soil erosion. (8mks)

9. a) i) Name a country in Africa where temperate grassland is found. (1mk)

ii) State **four** characteristics of temperate grasslands. (4mks)

b) i) Explain **four** ways in which trees in the coniferous forests have adapted to the environmental conditions of the region. (8mks)

c) You are required to carry a field study on a forest near your school.

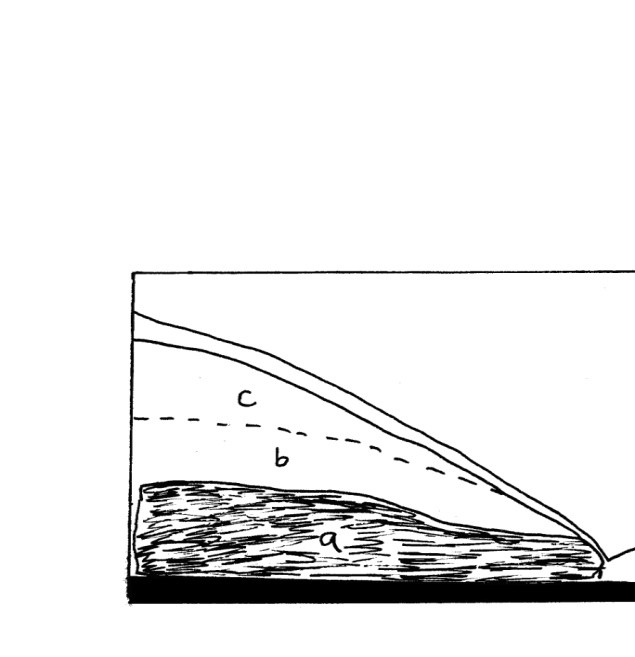
Describe the methods you would use to determine each of the following aspects of the trees in the forest.

i) Age of the trees. (3mks)

ii) Height of the trees. (3mks)

iii) Tree species (3mks

10. The figure below shows underground zones of saturation. Use it to answer question a (i)



a) i) Identify the zones marked a, b, and c. (3mks)

ii) Name **four** sources of groundwater. (4mks)

b) Explain **four** ways in which groundwater is of significance to human activities. (8mks)

c) i) Give **two** examples of lakes in East Africa that have formed due to crustal

warping. (2mks)

ii) Describe how the process of crustal warping leads to formation of lakes. (5mks)

iii) State **three** other processes that lead to formation of lakes apart from crustal

warping. (3mks) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

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