

NAME _____ CLASS _____

ADM NO _____

**312
GEOGRAPHY
PAPER 1
FORM 4
SEPTEMBER 2021
2 ³/₄ HRS**

END OF TERM ONE EXAMINATION ,2021

Instructions to candidates

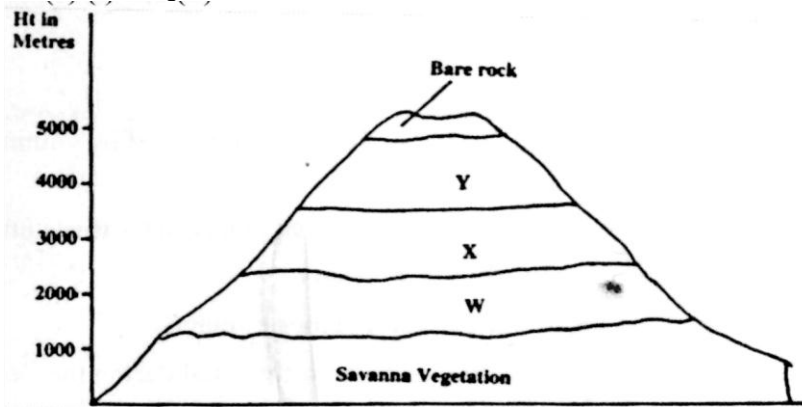
- 1. This paper consists of **two** sections: **A** and **B**.*
- 2. Answer **ALL** questions in section **A**. In section **B** answer question **6** and any other **TWO** questions.*
- 3. All answers to be written on the answer booklet provided.*
- 3. Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*

SECTION A

Answer all the questions in this section

1. a) Identify **Two** forces responsible for the spherical shape of the earth. (2mrks)
b) Give **Three** reasons why the interior of the earth is still hot. (3mks)
2. (i) What is climate? (2 mks)
(ii) What are the negative effects of climate change on physical environment? (4 mks)

3. The diagram below represents zones of natural vegetation on a mountain in Africa. Use it to answer question (a) (i)



- a) (i) Name the vegetation zones marked W, X and Y. (3 marks)
(ii) Name the temperate grasslands found in the following countries:
 - Canada (1 mark)
 - Russia (1 mark)
4. a) What is land breeze? (2 marks)
b) Give two ways in which sea breezes influence the adjacent land. (2 marks)
5. a) State three conditions necessary for the development of a Karst scenery (3 mks)
b) Give two reasons why there are few settlements in Karst landscapes (2 marks)

SECTION B

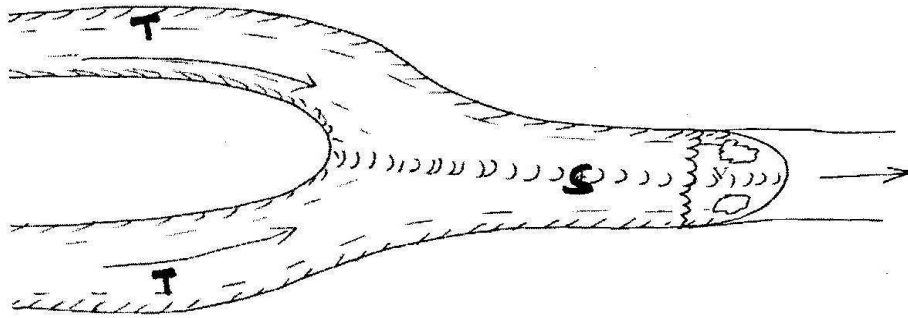
Answer question 6 and any two other questions from this section.

6. Mapwork (compulsory) Kijabe scale 1:50,000

- a) i) What is the title of the map area (2mks)
- ii) What is the Longitudinal extent of the map (2mks)
- b) i) Apart from forest give three types of natural vegetation in the map area (3mks)
- ii) What is the appropriate height of the top of Kijabe hill? (2mks)
- c) i) Describe the drainage of the area covered by the map (5mks)
- ii) Give the six figure grid reference of the primary trigonometrical station 2610 on the Eastern side of the map extract (2mks)
- d) Citing evidence from the map, identify four economic activities in the area covered by the map (4mks)
- e) Draw a rectangle measuring 10cm by 8cm to represent the area enclosed by Easting 30 and 35 and Northing 90 and 94.
- On it sketch and label the following
- i) All weather road bound surface A104
- ii) River upper Eneaso kedong
- iii) Regional/provincial boundary
- iv) Dry weather road (5mks)
7. (a) i) **What** is vulcanicity (2marks)
- ii) With the help of a diagram describe how a lava plateau is formed. (6marks)
- (iii) **Distinguish** between a crater and a caldera (3marks)
- (b) **Explain four** negative influences of vulcanicity and associated features to human activities in Kenya (8marks)
- (c) Suppose you have been asked by your Geography department to carry out a Field study of volcanic activities around your school,

- (i) **Design** a working programme (schedule) you would use during the day of the study. **(3marks)**
- (ii)
- ii) State three** follow-up activities you may have been involved in after the field study **(3mks)**
- 8 (a) (i) Name **three** conditions necessary for wind deposition to take place in hot Desert **(3mks)**
- (ii) **State three** mechanisms of wind transportation in hot deserts. **(3marks)**
- (b) With the aid of labelled diagrams **describe how** the following features are formed.
- (i) Rock pedestal. **(6marks)**
- (ii) Zeugen. **(6marks)**
- (c) You are supposed to carry out a field study of a semi- arid area in Kenya:
- (i) Name **two** Counties which you would visit for your study. **(2mks)**
- (ii) **What** information would you collect through observation that would indicate that the area is turning into a desert? **(2marks)**
- (iii) **State three** measures you would recommend to combat desertification in the area. **(3marks)**
9. (a) (i) Differentiate between soil profile and soil catena **(2mks)**
- (ii) Draw a well labeled diagram of soil catena **(5mks)**
- (b) (i) State three factors that influence soil formation **(3mks)**
- (ii) Identify any two components of soil **(2mks)**
- (c) Explain any four farming methods that help conserve soils **(8mks)**
- (d) You intend to carry out a field study on soils around your schools.
- (i) State three reasons why you would need a route map **(3mks)**
- (ii) Name two tools you will need to carry for use during their field study **(2mks)**
10. (a) (i) What is an ice-sheet? **(2mks)**
- (ii) Give two reasons why there are no ice-sheet in Kenya **(2mks)**
- (i) Explain three factors that influence movement of ice from where it has accumulated. **(6mks)**
- (b) Describe how an arete is formed **(4mks)**

(c) The diagram below shows types of moraines in a glacial valley.



(i) Name the types of moraines marked S,T and V

(3mks)

d. Explain four positive effects of glaciations in lowland areas.

(8mks)