

# FORM 4 TERM 1 OPENER

# GEOGRAPHY

NAME..... ADM NO.....

CLASS..... SIGN.....

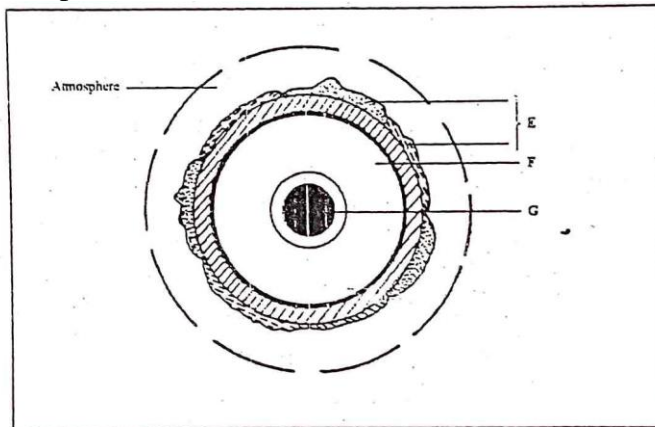
INDEX NO..... DATE.....

**312/1**  
**GEOGRAPHY**  
**PAPER 1**  
**TIME 2 ¾ HOURS**  
**INSTRUCTIONS**

- 1.The paper contains 2 sections A and B.
- 2.Attempt all questions in section A.
- 3.In section B answer questions 6 and choose any other two questions.

### SECTION A

- 1.(a)Other than the sun name this other heavenly bodies that make up the solar system.(1mks)  
(b)The diagram below represent the structure of the earth. Use it to answer questions below



Name the layers marked E,F and G.

2. (a)State two characteristics of intrusive igneous rocks. (2mks)

---

**FOR MARKING SCHEMES CALL/WHATSAPP 0705525657**

(b) Fill the table below.

(3mks)

Original Rock	Metamorphic Rock
Granite	X
Coal	Y
Z	Marble

- 3.(a) What is folding? (2mks)  
(b) Name three orogenies known in geological history. (3mks)
4. (a) State three factors which influence how rivers transport their load. (3mks)  
(b) State three ways in which waterfalls may be formed. (3mks)
5. (a) Differentiate between ice sheet and ice berg. (2mks)  
(b) Give two ways in which ice moves. (2mks)

## SECTION B

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

6. Study the map of Yimbo 1:50,000 (sheet 115/1) provided and answer the following questions.

- (a)(i) Convert the representative scale given on the map into statement scale. (2mks)  
(ii) Give the latitudinal extent of the area covered by the map. (1mk)  
(iii) Give the magnetic declination as at January 1965. (1mk)
- (b)(i) What is the height of Usire Hill? (1mk)  
(ii) What is the length in kilometers of all weathered road loose surface (C506) from the road junction at grid square 3082 to the eastern edge of the map? (2mks)  
(iii) What is the bearing of the air photo principal point on grid reference 3274 from the trigonometrical station on grid reference 3980? (2mks)
- (c) Using a scale 1cm to represent 100m draw a cross section along northing 99 between easting 16 and 22. (4mks)

On the cross section mark and name the following

- Steep slope (1mk)  
- A seasonal river (1mk)  
- Thicket vegetation. (1mk)

(Answer on the graph paper)

- (d)(i) Explain three physical factors that have influenced the distribution of settlements in the area covered by the map. (6mks)  
(ii) Calculate the vertical exaggeration of the cross section drawn. (2mks)

7.(a)(i) Describe the following characteristics of minerals.

- Texture. (1mk)  
Tenacity. (1mks)  
Colour. (1mk)

- (ii) Describe how extrusive igneous rocks are formed. (5mks)
- (b) State three characteristics of rock. (3mks)
- (c) Explain three economic significance of rocks in Kenya. (6mks)
- (d) Student carries out field study on rocks around their school.
- (i) State two importance of stating the objectives of the study. (2mks)  
(ii) Give three reasons why they prepare a route map for the study area. (3mks)

---

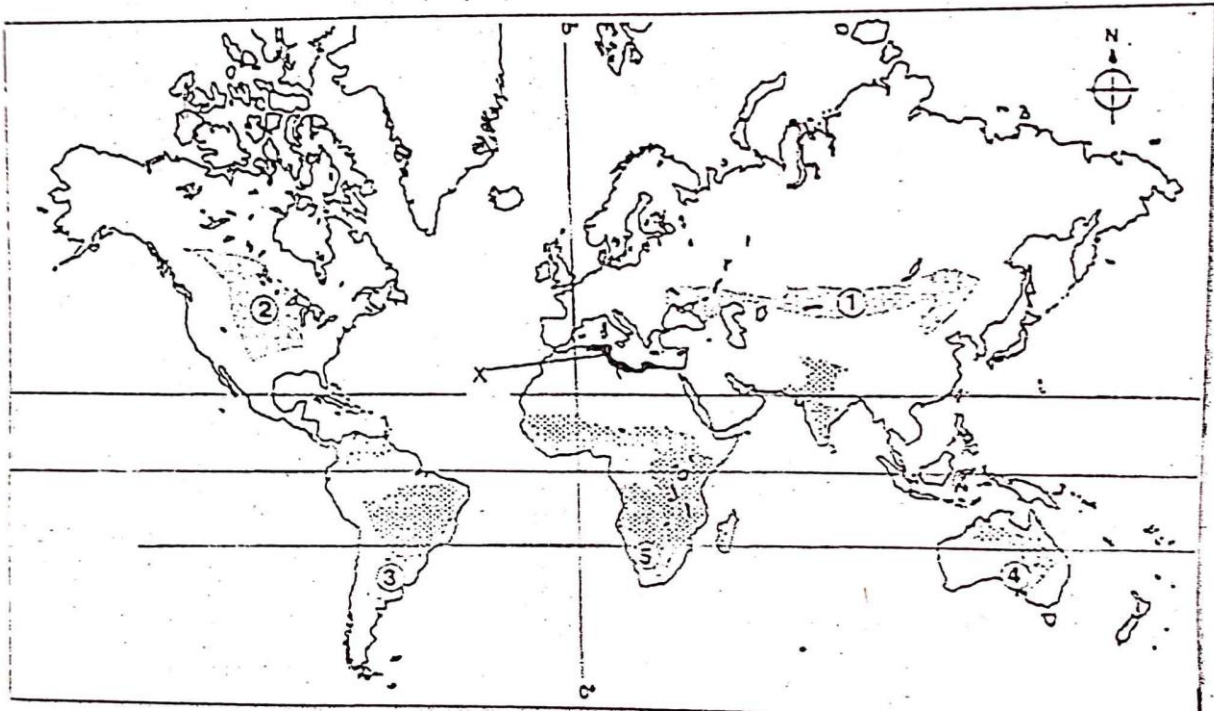
**FOR MARKING SCHEMES CALL/WHATSAPP 0705525657**

(iii) Give three activities that the students were involved in during the field study. (3mks)

8.(a)(i) What is vegetation. (2mks)

(ii) Distinguish between natural and derived vegetation. (2mks)

(b) The map below shows the world vegetation regions. Study and use it to answer the questions that follow.



(i) Identify grassland regions marked 1, 3 and 5. (3mks)

(ii) Describe the characteristics of vegetation marked X. (5mks)

(c) Explain how the following factors influence growth and distribution of vegetation .

-Altitude. (2mks)

-Soils. (2mks)

-Human activities. (2mks)

(d) Your class is to undertake a field study on vegetation in the man forest.

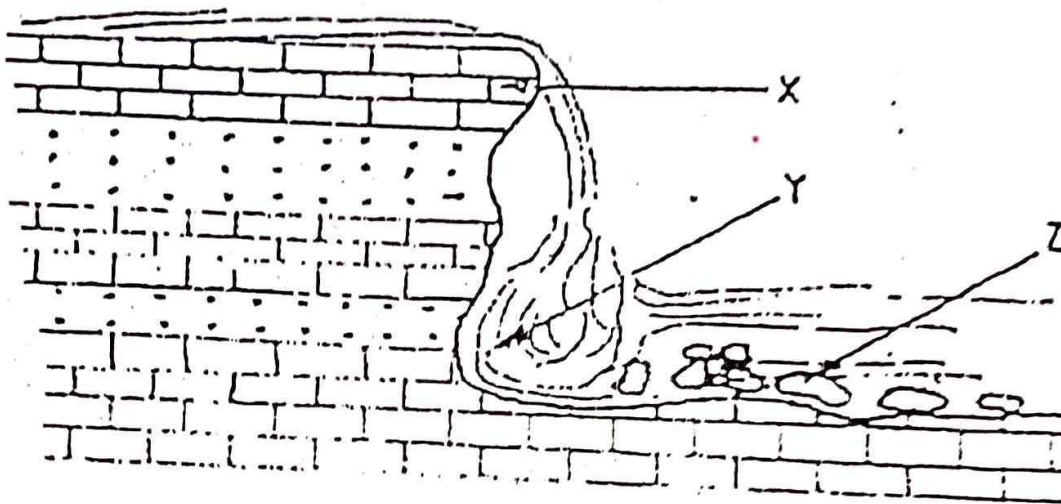
(i) State two objectives of the study. (2mks)

(ii) Prepare a working schedule for the study. (5mks)

9.(a)(i) Using a well labeled diagram, show the main processes of the hydrological cycle. (5mks)

(ii) Differentiate between watershed and a catchment area. (2mks)

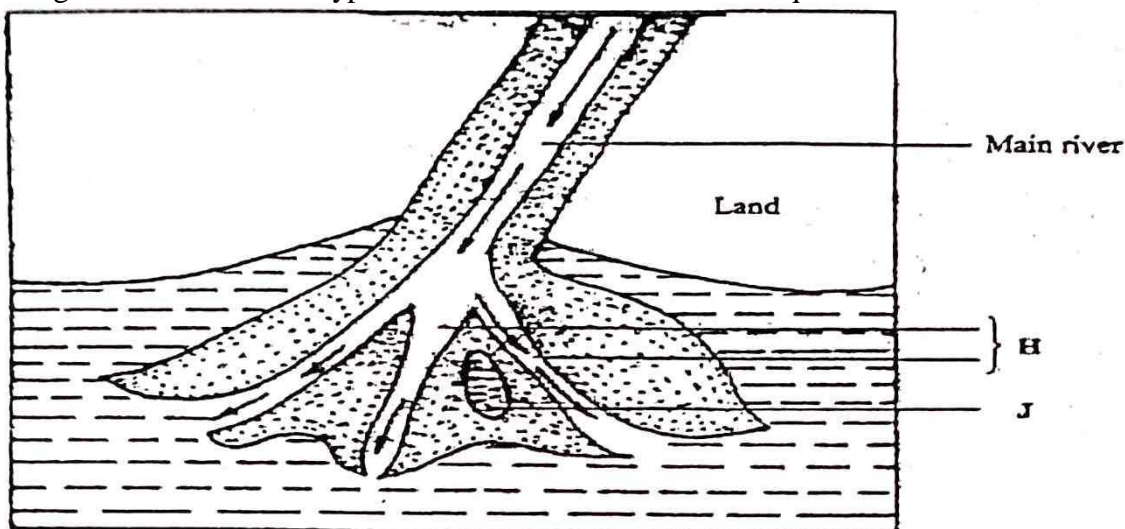
(b)(i) The diagram below shows a waterfall. Name the features marked X, Y, Z. (3mks)



(ii) State three ways in which a waterfall may form.

(3mks)

(c) The diagram below shows a type of a delta. Use it to answer the question below



(i) Name the type of the delta shown above

(ii) Identify the features feature marked H and J delta.

(iii) Describe the formation of the above delta.

(3mks)

10.(a)(i) Define the term soil.

(2mks)

(ii) State four composition of soil.

(4mks)

(b)(i) Differentiate between soil profile and soil catena.

(2mks)

(ii) Draw and label the diagram to show soil profile.

(5mks)

(c) What are the impacts of soil erosion.

(5mks)

(d) You are required to carry out a field study on the lower course a river

(i) Give two reasons why you would require a route map.

(3mks)

(ii) State two activities you would carry out to setermine why deposition occurs at this stage.

(2mks)

(iii) State three follow up activities you would be involved in after the field study.

(2mks)

(d) Students from a school in nakuru county are planning to carry out a field study on soil.

**FOR MARKING SCHEMES CALL/WHATSAPP 0705525657**

- (i) Give three reasons why it is important to seek permission from the school authority. (3mks)
- (ii) identify four challenges you would encounter during field study. (4mks)

---

**FOR MARKING SCHEMES CALL/WHATSAPP 0705525657**