

NAME DATEADM NO.

SIGNATURE.....

312/1

GEOGRAPHY FORM THREE

PAPER 1

OPENER EXAMINATION TERM 3, 2022

TIME: 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES

- This paper has two sections, **A** and **B**.
- Answer all the questions in section A
- Answer question **6** and any other **TWO** questions in section B.

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MARKS	SCORE
A	1-5	25	
B	6	25	
	7	25	
	8	25	
	9	25	
	10	25	
TOTAL MARKS		100	
TOTAL SCORE			

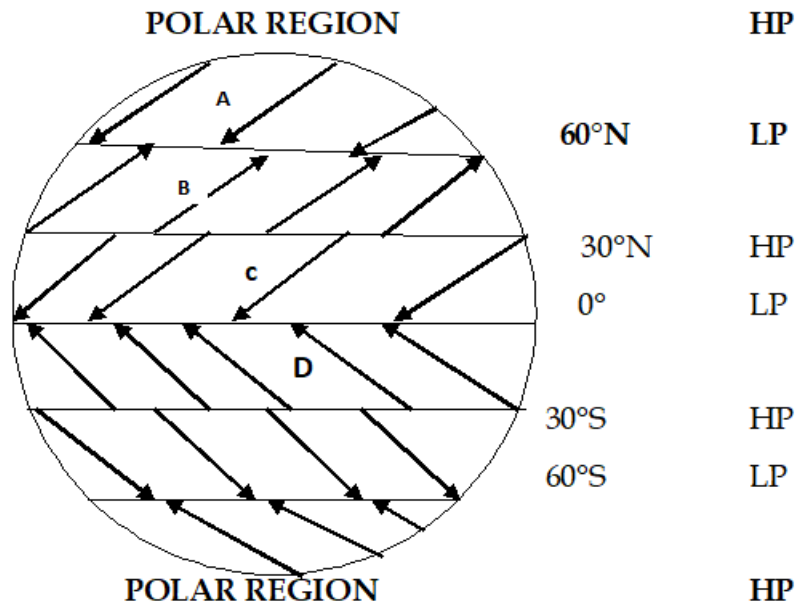
Section A [25MARKS]

1 a) what is a solstice [2MARKS]

b) State **three** effects of the revolution of the earth [3MARKS]

2. (a) What is an air mass? (2 MARKS)

(b) Study the diagram below and name the air masses marked A, B, C and D



Key

LP- Low Pressure

HP- High Pressure

A-

B-

C-

D-

(4mks)

3a] Give **two** ways through which rocks may be metamorphosed.

(2Marks)

b) Name **two** examples of plutonic rocks

(2Marks)

4 (a) Differentiate between veins and lodes

(2Marks)

(b) State **three** effects of land dereliction

(3Marks)

5. (a) Give any **two** natural causes of earthquakes

(2Marks)

(b) Name **three** characteristics of the rift valley lakes of Kenya

(3Marks)

Section B [75marks]

Instructions;

Answer question 6 and any other two questions from this section

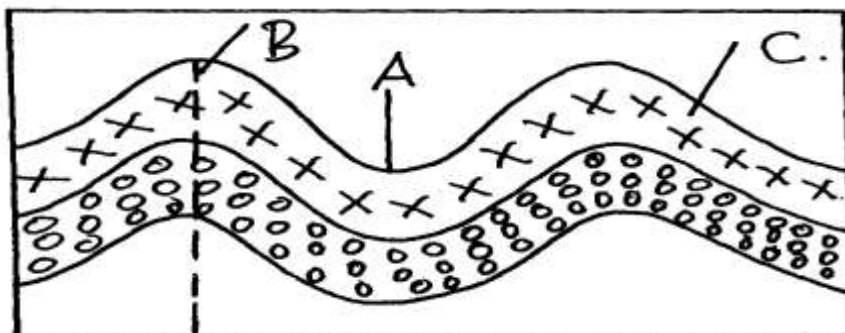
6. Study the map of Nyeri 1:50000 (sheet 12014) provided and answer the following questions.

- a) i) Give the longitudinal extent of the area covered by the map. (2mks)
- ii) What is the magnetic declination as at January 1975 of the map. (2mks)
- b) i) Calculate the bearing of trigonometrical station in grid square 7546 from the forest guard station in grid square 6155. (2mks)
- ii) Identify two types of vegetation found in Aberdares forest. (2mks)
- c) Describe the drainage of the area covered by the map. (7mks)
- d) With evidence from the map given three social functions of Nyeri town. (6mks)
- e) Explain **two** factors favoring trade in Nyeri town. (4Mks)

7. The diagram below shows a simple fold

(a) (i) Name the part marked **A**, **B** and **C**

[3marks]



(ii) Name **three** fold mountains outside Africa [3marks]

(iii) Give **thee** landform associated with folded regions [3marks]

(b) With the aid of well labeled diagram describe the process of formation of Fold Mountain. (8Marks)

(c) Explain **four** ways in which folding influences human activities [8marks]

8. a)i) What is chemical weathering [2Marks)

ii) State **five** factors that affect the rate of chemical weathering in equatorial regions

[5marks]

b) Explain the following chemical weathering process

i) Carbonation (2Marks)

ii) Hydrolysis (2Marks)

c) Explain **four** economic importance of weathering to physical and human environments [8marks]

(d) Explain **three** factors which influence mass-wasting [6marks]

9 (a) Give **three** reasons for over-exploitation of hardwoods in Africa. [3marks]

(b) State **four** measures taken to conserve forests in Kenya. [4marks]

(c) (i) Name **two** major lumbering provinces in Eastern Canada. [2marks]

(ii) Explain the factors that have favored forestry in Canada. [10marks]

(d) Explain **three** differences between softwoods in Kenya and Canada. [6marks]

- 10 (a) (i) State **two** ways in which wind erodes the surface of the earth. [2marks]
- (ii) Explain **three** ways thorough which wind transports its load. [6marks]
- (b) Describe how the following desert features are formed:-
- (i) Zeugen [5marks]
- (ii) Rock pedestal [5marks]
- (c)(i) Give the name given to rocky desert in the Sahara [1mark]
- (ii) Explain **three** positive effects of desert features to both human and physical environment. [6marks]