**Term 1 – 2024**

 **GEOGRAPHY (312)**

**FORM THREE (3)**

 **Time: 2 ¾ Hours**

**Name**: …………………………………………………………. **Adm** **No**: ……………….

**School**: ……………………………………………………….. **Class**: …………………..

 **Signature**: …………………………………………………….. **Date**: ……………………

**INSTRUCTIONS TO CANDIDATES:**

* This paper consists of **two** sections: **A** and **B**
* Answer **all** the questions in section **A**
* Answer question **6** and **any two** questions from **section B**
* All answers **must** be written in the answer booklet provided

**SECTION A: 25 MARKS**

**Answer all the questions from this section.**

1. (a) Name **two** layers of discontinuity in the interior of the earth. (2 marks)

 (b) State **three** characteristics of the mantle. (3 marks)

2. (a) Differentiate between epicenter and seismic focus. (2 marks)

 (b) State **three** major earthquake seismic zones in the world. (3 marks)

3. (a) Define the term climax vegetation. (2 marks)

 (b) Mention **three** factors that influence vegetation distribution. (3 marks)

4. (a) A part from soil creep, state **two** other forms of slow mass wasting. (2 marks)

 (b) Outline **three** evidences of soil creep. (3 marks)

5. a) Name **two** major forest blocks found along the Kenyan coast. (2 marks)

 b) State **three** factors contributing to depletion of forests in Kenya. (3 marks)

**SECTION B: 75MARKS**

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

6. Study the map of Kisumu East 1:50,000 (Sheet 116/2) provided and answer the questions that follow:

1. Give the magnetic variation of the Kisumu East map (2marks)
2. Give the longitudinal extent of the area covered by the map (2 marks)
3. Name **three** human made features in the grid square 0084 (3marks)
4. Identify **two** methods used to show relief on the map. (2 marks)
5. Calculate the area occupied by the drainage feature on the south western end of the area covered by the map and give your answer in km2. (3marks)
6. Name **two** drainage features found on the area covered by the map. (2marks)
7. Enlarge the area bound by Easting 00 to 03 and Northing 82 to 84 **twice** and on it mark and name: (5marks)
8. River Luando
9. All weather road, bound surface B25/3
10. Seasonal swamp
11. School at Olendu
12. Describe the relief of the area covered by the map. (3marks)
13. Citing evidences from the map, give **three** social functions of Kisumu Municipality. (3marks)

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

ii. Explain **three** factors which influence the type and rate of weathering (6marks)

b) List down **five** processes of chemical weathering (5marks)

c) Explain **three** ways in which people cause weathering. (6marks)

d) Explain the effect of weathering on the following

i) Tourism (2marks)

ii) Soil formation (2marks)

iii) Building industry (2marks)

8. (a) (i) What is an orogeny? (2 marks)

 (ii) Give **two** factors that influence the folding process of rocks. (2 marks)

(b) The diagram below shows some types of folds. Use it to answer the question (i) and (ii).



 (i) Name the types of folds marked **E** and **F**. (2 marks)

 (ii) Describe how an overthrust fold is formed. (4 marks)

 (c) Name the **any** of countries in which the following fold mountains are found. (i) Atlas (1 mark)

 (ii) Alps (1 mark)

 (iii) Himalayas (1 mark)

 (iv) Andes (1 mark)

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

 (ii) Explain **four** ways in which fold mountains influence climate. (8 marks

9. (a)(i***)*** Name **three** types of minerals. (3 marks)

(ii) State **three** ways in which minerals occur. (3 marks)

 (b)(i) Describe shaft mining method. (5 marks)

 (ii) Outline **three** challenges faced by shaft miners. (3 marks)

 (c) Explain **four** problems facing the mining industry in Kenya. (8 marks)

(d) Highlight **three** ways in which mining derelicts can be reclaimed. (3 marks)

10.(a) i) Define a forest. (2marks)

 ii) Name **two** indigenous soft wood trees in Kenya. (2marks)

 (b) i) Explain **three** advantages of planted softwood forests in Kenya. (6marks)

 ii) Explain **four** problems facing commercial exploitation of tropical hardwood forests (8marks)

 (c) Compare soft wood forests in Kenya and those in Canada under the following headings:

 i) Type of trees (2marks)

 ii) Method of exploitation. (2marks)

 (d) State **three** methods used by the government of Kenya to conserve the mau forest. (3marks)