***Kenya Certificate of Secondary Education. (K.C.S.E)***

**GEOGRAPHY PAPER ONE**

MOCK 2023

**NAME…………………………………………….………...... ADM NO………….……...........……**

**SIGN…….............................……….**

**CLASS........................................................................................ DATE……………………….......…**

**312/1**

**GEOGRAPHY**

**PAPER 1**

**TIME: 23/4 HOURS**

*Kenya Certificate of Secondary Education.(K.C.S.E)*

**INSTRUCTIONS TO CANDIDATES**

1. Write your name and index number in the spaces provided above
2. This paper consists of **TWO** sections A and B
3. Answer **ALL** questions in Section A. In section B answer **QUESTION 6** and any other **TWO.**
4. All answers **MUST** be written in the spaces provided at the end of question 10
5. Do not remove any pages from this booklet
6. This paper consists of 12 printed pages. Candidates should check to ensure that all pages are printed as indicated and no questions are missing.

**For Examiners Use Only**

|  |  |  |  |
| --- | --- | --- | --- |
| **Section** | **Questions** | **Maximum Score** | **Candidates Score** |
| **A** | **1 – 5** | **25** |  |
| **B** | **6** | **25** |  |
|  | **25** |  |
|  | **25** |  |
|  | **TOTAL SCORE** | **100** |  |

**SECTION A**

**ANSWER ALL THE QEUSTIONS IN THIS SECTION**

1a) Define the term Environment. (3mks)

b.) List any three major areas coved in physical Geography. (3mks)

2a) The diagram below represents the structure of the atmosphere use it to answer question (a)



a) Name

 i) The parts marked P and Q. (2mks)

 ii) The layer of discontinuity marked R. (1mk)

b.) State two characteristics of weather conditions in the troposphere. (2mks)

3. a) What is an earthquake? (2mks)

 b) Identify the scale used to measure

 i) The intensity of earthquakes. (1mk)

 ii) The magnitude of earthquakes. (1mk)

 c) Name one major region where earthquakes are likely to occur. (1mk)

4. a) Distinguish between River Capture and river rejuvenation. (2mks)

 b) State three characteristics of a river at youthful stage. (3mks)

5. a) Explain two reasons why wind is the dominant agent of erosion in arid area. (4mks)

 b) Identify any one feature formed as a result of wind deposition in arid areas. (1mk)

6. Use the map PROVIDED KISUMU EAST I:50,000 (SHEET 116/2) and answer the following questions .

 a.) i) What is the sheet title of the map (1mk)

ii). What is the magnetic declination of the map extract (1mk)

 b. i) Convert the ratio scale of the map extract into statement scale. (2mks)

 c.) What is the bearing of trigonometrical station at grid reference 081980 from the Air photo Principals point at grit square 0997. (2mks)

 d) Give three types of natural Vegetation found in the area covered by map. (3mks)

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

 f) Draw a rectangle 12cm by 10cm to represent the area enclosed by Easting 03 and 09 and Northing 80 and 85. On the rectangle, mark and name the following features. (5mks)

 i) Trigonometrical station 1154.

 ii) All weather road B 25/3

 iii) Seasonal swamp.

 iv) Ombeyi river.

 g. Citing evidence from the map ,explain three social factions of Ksumu town . (6mks)

7. a) i) What is folding ? (2mks)

 ii) State three factors that influence folding . (3mks)

 b) i) Apart from over thrust fold ,name four other types of folds. (4mks)

 ii) With the aid of well labelled diagrams ,describe the formation of an over thrust fold. (8mks)

 c) Explain four significance of fold maintains to human activities. (8mks)

8. The map below shows some vegetation regions of the world.

 Use it to answer questions (a) to (c)



 a.) Name the temperate grass lands marked H ,J and K. (3mks)

 b.) Describe the characteristics of the natural vegetation found in the shaded area marked N. (5mks)

 c.) Explain four ways in which the vegetation found in the area marked M adapts to the environment conditions of the region. (8mks)

 d.) You are required to carry out a field study of the vegetation which the local environment.

 i) Apart from identifying the different types of plants, state four other activities you will carry out during the field study. (4mks)

 ii.) How will you identify the different types of plants. (2mks)

 iii.) Give three reasons for visiting the area before study. (3mks)

9. a) i) Differentiate between a waterfall and a gorge. (2mks)

 ii.) State two factors that influence the rate of erosion by a river in its upper course. (2mks)

 b.) i) Describe the processes by which a river transport its load. (6mks)

 ii) Name three river depositional features. (3mks)

 c.) Describe each of the following drainage pattern using diagrams.

 i) Centripetal. (2mks)

 ii) Radial. (2mks)

 iii) Fault-guided. (2mks)

 d) Your class is planning to carry out a field study of a river in its mature stage

 i.) Give three methods you would use to record the information collected. (3mks)

 ii.) State three characteristics of a river at the mature stage that you are likely to observe during the study. (3mks) 10 a.) i) State three conditions necessary for the development of Karst scenery. (3mks)

 ii.) Give three sources of underground water. (3mks)

 b) i) Differentiate between Artesian basin and Artesian well (2mks) ii.) A part from stalagmites, name three other underground features formed in limestone areas. (3mks)

 iii) With the aid of a diagram, describe how a stalagmite is formed. (8mks)

 c.) Explain three positive significance of resultant features in Karst scenery. (6mks)

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.................................................................................................................................................................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

........................................................................................................

..........................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................

.........................................................................................................................................................................