**Name:…………………………………School………………………..**

**Class:……AdmNo:……..Index:……………………………………**

**GEOGRAPHY**

**312/1 PAPER ONE**

**TIME 2HRS 45 MIN.**

**FORM 4**

**END OF TERM TWO 2021 EXAMINATION**

**Kenya Certificate of Secondary Education**

**312/1**

**2 HRS 45 MIN.**

**INSTRUCTION TO CANDIDATE.**

* This paper has two sections A and B.
* Answer All questions in section A.
* In section B, Answer question six and any other two questions.

**For examiners use only**

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| --- | --- | --- | --- |
| **SECTION**  | **QUESTION**  | **MAXIMUM SCORE**  | **CADINDATE SCORE**  |
| **A** | **1-5** | **25** |  |
| **B** | **6** | **25** |  |
|  |  | **25** |  |
|  | **25** |  |
|  **TOTAL SCORE** |  |

**SECTION A**

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

1. (a) What is a Land Breeze (2mks)

 (b) Give three ways in which sea breeze influence the adjacent land. (3mks)

1. State 5 characteristics of the mantle (5mks)
2. (a) Differentiate between magnitude and intensity of an earthquake. (2mks)

(b) State three precautions which can be taken against earthquake destruction? (3mks)

1. (a) Give two causes of Ocean currents (2mks)

 (b) List three reasons why Oceans tend to heat more slowly than land masses. (3mks)

1. (a) What is humus (2mks)

(b) State three ways through which humus improve the quality of a soil. (3mks)

**SECTION B**

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

1. **You are provided with a map of Kijabe East Africa 1: 50,000(KENYA) sheet 134/3, use it to answer the following questions.**

a) (i) Give the six figure grid reference of the trigonometrical station (2610m) (2mks)

 (ii) What is the general flow of River Gatamaiyu (2mka)

b) (i) measure the length of Nairobi-naivasha railway to the west of easting 27and east of easting 24 give your answer in kilometers .( 2mks)

(ii)Citing evidence from the map, identify three social services offered in the area covered by the map (6mks)

c) (i) Explain three physical factors favouring cattle rearing in the area covered

by the map. (6mks)

 (ii) Identify three physical features found at grid square 2695 (3mks)

d) (i) On the graph paper provided draw a rectangle measuring 12cm by 8cm to represent the area bordered by Easting 26 and 29 and northing 94 and 96 (2mk)

 (ii) On it mark and label

* All weather road loose surface ( 1 mk)
* Power line ( 1 mk)
1. (a) (i) State two processes of wind erosion in the desert areas (2mks)

(ii) Give three reasons why wind action is effective in the hot deserts. (3mks)

(iii) With aid of well labelled diagrams describe the formation of Yardangs. (7mks)

 (b) i)State two factors that influence the transportation of materials in the desert by wind (2mks)

(ii)Give three processes through which wind transport materials in desert (3mks)

(iii)Name two features that are formed due to action of water in deserts. (2mks)

c) Explain three positive effects of desert landforms to human activities (6mks)

1. (a) i) List two effects of horizontal earth movements (2mks)

(ii) Give three causes of earth movements (3mks)

b) i) Name and describe three types of plate tectonic boundaries (6mks)

 (ii) Name three types of folds (3mks)

c) With aid of well labelled diagrams, describe the formation of fold mountains (7mks)

d) State four significance of folding to the human and physical environment. (4mks)

1. a) Define the following term;
2. water table – (2mks)
3. aquifer – (2 mks)

b) Explain how the following factors influence the occurrence of underground water.

1. Nature of the rock (2mks)

ii) Gradient of the land (2mks)

c) State four conditions that are necessary for the formation of an artesian well (4mk)

d) (i) Explain three conditions that are necessary for development of Karst Scenery (6mks)

 (ii) Give two reasons why there are few settlements in karst region (2mks)

 e) Students carried out a field study in a karst landscape.

(i) State two methods they would have used to record data (2mks)

(ii) State three importance of studying a karst landscape through field work. (3mks)

1. (a) i) What is ice sheet (2mks)

(ii)Explain the reason why there are no ice -sheets in Kenya (2mks)

b) Describe the formation of a pyramidal peak. (5mks)

 C) i) Name three types of moraine (3mks)

(ii) Explain four effects of glaciated features in upland areas. (8mks)

d) Students from a school near Mt. Kenya were planning to carry out a field study

on the glaciated features on the mountain

i) Give three reasons why it would be difficult to undertake the field study on glaciated

features on the mountain (3mks)

ii)Highlight two methods of collecting data they would have used (2mks)