**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CLASS: \_\_\_\_\_\_\_\_\_\_\_\_ADM NO: \_\_\_\_\_\_\_\_\_\_\_**

**312/1**

**GEOGRAPHY**

**PAPER 312/1**

**END OF TERM TWO**

 **FORM 4 EXAM**

**Time: 2 ¾ hours**

**INSTRUCTIONS TO CANDIDATES**

1. This paper consists of two sections A and B answer all questions in section A
2. In section B answer question 6 and any other two questions.
3. All questions must be written in the answer booklet provided.

For examiner’s use only

|  |  |  |
| --- | --- | --- |
| **Section A**  | 1 – 5  |  |
| **Section B**  | 6 |  |
| 7 |  |
| 8 |  |
| 9 |  |
| 10 |  |
| **TOTAL**  |  |  |

**SECTION A**

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

1. a) Name **two** planets without satellites. **(2mks)**

 b) State **three** characteristics of the inner core. **(3mks)**

1. a) Give **two** local winds that are found in Kenya. **(2mks)**

b) State **three** conditions necessary for formation of dew. **(3mks)**

1. a) Define a lake. **(2mks)**

 b) State **three** reasons why some rift valley lakes have fresh water. **(3mks)**

1. a) Give **two** main components of soil. **(2mks)**

 b) State **three** factors that favour soil erosion. **(3mks)**

1. The diagram below shows a river and its tributaries. Use it to answer question 5(a)



1. Name the parts marked L and M. **(2mks)**

L –

M –

1. State **three** factors that influence river deposition. **(3mks)**

**SECTION B**

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

1. Study the map of Kijabe provided (1:50,000) and use it to answer the questions that follow.
2. i) State one method of representing relief used in the map extract.

ii) Give the **six** figure grid reference of the cattle dip near Kenton.  **(2mks)**

iii) Give the longitudinal extent of the map extract. **(2mks)**

1. i) Calculate the area to the south of the power line giving your answer in Km2 **(2mks)**

ii) Describe the settlement distribution in the area covered by the map extract. **(5mks)**

1. Explain **three** factors favouring cattle rearing in the area covered by the map. **(6mks)**
2. Draw a cross section from grid reference 270900 to 300960 using a scale of 1cm rep 20 Metres. On your cross section label and name
* Tarmac road
* Power line
* R. Tongitongi **(8mks)**
1. a) i) Differentiate between weathering and mass wasting. **(2mks)**

 ii) Name **two** types of landslides. **(2mks)**

 iii) Other than water, identify three other weathering agents. **(3mks)**

 b) i) Explain how the following process of weathering take place.

- Exfoliation **(3mks)**

* Carbonation **(3mks)**

ii) Explain how the following factors influence mass wasting.

* Climate **(2mks)**
* Slope **(2mks)**
1. i) Describe the process of solifluction.  **(3mks)**

 ii) State two causes of soil creep. **(2mks)**

1. Students of Makuyu Boys carried out a field study on weathering in a limestone area.

 i)Name **two** surface features they may have identified. **(2mks)**

 ii)State **one** effect of weathering on human activities **(1mk)**

1. a) i) What is a piedmont glacier. **(2mks)**

 b) Explain the following ways of ice movement.

i) Basal slip **(2mks)**

ii) Plastic flowage **(2mks)**

 c) i) State **two** processes of glacier erosion. **(2mks)**

 ii) Using a well labeled diagram describe the formation of crag and tail. **(7mks)**

 iii) Apart from crag and tail state **two** glacial depositional features. **(2mks)**

 d) Explain **three** positive effects of glaciations to human activities**. (6mks)**

1. a) i) Differentiate between orogenic and epeirogenic earth movement. **(2mks)**

 ii) Describe the origin of continents according to the theory of plate tectonics. **(4mks)**

 b) i) Apart from an over thrust fold, name three other types of folds. **(3mks)**

 ii) Using well labeled diagrams, describe how Fold Mountains are formed. **(8mks)**

 c) Explain **two** negative effects of folding to human activities. **(4mks)**

 d) Students from your school intend to carry out a field study of a folded area.

 i) State **two** preparations you need to do. **(2mks)**

 ii) State **two** problems you are likely to encounter. **(2mks)**

1. a) i) Apart from stalagmites identify **two** underground features in a Karst scenery. **(2mks)**

 ii) State **three** conditions necessary for the formation of a Karst landscape. **(3mks)**

 iii) Describe the formation of a stalagmite. **(5mks)**

 b) i) Name **two** water erosional features on a desert. **(2mks)**

 ii) Describe the formation of a rock pedestal. **(5mks)**

 c) Explain **four** significance of desert land forms to human activities. **(8mks)**