**Name………………………………………………………Adm Number: ………………**

 **Candidate’s Signature ……………**

 **Date……………………….**

**312/1**

**GEOGRAPY**

**PAPER 1**

**MARCH 2019**

**2**$^{3}/\_{4}$**HRS**

**MOMALICHE 2 CYCLE 6**

**KENYA CERTIFICATE OF SECONDARY SCHOOLS**

**GEOGRAPHY**

**PAPER 1**

**INSTRUCTIONS TO CANDIDATES**

1. *This paper has two sections: A and B*
2. *Answer all the questions in section A.*
3. *Answer question 6 and any other two questions form section B.*
4. *All answers must be written in the answer booklet provided.*
5. *Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.*
6. *Candidates should answer the questions in English*

**SECTION A**

1. (a) Name two forces responsible for the spherical shape of the earth (2mks)

 (b) Give three reasons why interior part of the earth is very hot (3mks)

2. (a) State three characteristics of cyclonic rainfall (3mks)

 (b) Identify two conditions that favours formation of a Dew (2mks)

3. (a) Give **three** reasons why it is important to study the plate tectonics theory. (3mks)

 (b) Name **two** fold mountains formed during the alpine orogeny (2mks)

4. (a) Differentiate between soil profile and soil catena. (2mks)

 (b) Give **three** components of soil apart from humus. (3mks)

 **5**. a) Study the table below and answer the question.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | J | F | M | A | M | J | J | A | S | O | N | D |
| Temperature oC | 29 | 28 | 30 | 30 | 29 | 29 | 29 | 27 | 29 | 30 | 30 | 28 |
| Rainfall in mm | 10 | 9 | 22 | 48 | 26 | 9 | 24 | 10 | 5 | 10 | 18 | 11 |

1. Calculate the mean annual rainfall. (1 mark)
2. What is the annual range of temperature? (1 mark)
3. Give three reasons why the top of Mt. Kenya has got no vegetation. (3marks)

**SECTION B**

***Answer questions 6 and any other two questions in this following***

6. Study the map of Taita Hills (1:50,000) sheet 189/4 provided and answer the following questions

(a) (i) What is the bearing of the peak of Mwatunge hill in grid square

3214 from the water tank in grid square 2619? ( 2mks)

(ii) What is the length in kilometers of the section of the Mwatate – Voi railway line in the south – eastern part of the map? (2mks)

(b) Draw a rectangle measuring 16cm by 12 cm to represents the area enclosed by the Eastings 24 and 40 and Northings 20 and 30 (1mk)

On the rectangle, mark and name the following features:

* + Mgange hills (1mk)
	+ A rock out crop at Weruga (1mk)
	+ All weather road, bound surface (1mk)
	+ River Ruhia (1mk)
	+ Ronge forest (1mk)

(c) Using evidence from the map, explain three factors that have favoured the establishment of the Teita sisal Estates in the Southern part of the area covered by the map (6mks)

(d) (i) Describe the distribution of settlement in the area covered by the map(5mks)

(ii) Citing evidence from the map, give two economic activities carried out in the

 area covered by the map other than sisal farming (4mks)

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

 (ii) Name **three** ways through which lakes are formed. (3mks)

 (iii) List **three** sources of Lake Water. (3mks)

 (b) Describe how L. Victoria was formed. (4mks)

 (c) Explain **two** reasons why some Lakes in the Rift Valley have fresh water. (4mks)

 (d) State **three** economic significance of Lakes. (3mks)

1. Students from your school intends to carry out a field study on Lakes.

(i) State **two** objective for their study. (2mks)

(ii) Identify **two** methods they will use to record the data collected. (2mks)

(iii) Which human activity might they have found to be affecting the Lakes? (2mks)

8.a) i) Differentiate between a barrier reef and a fringing reef.(2mks)

ii) Give three causes of ocean currents.(3mks)

 b) State four conditions that favour the growth of polyps.(4mks)

c) With the aid of a well labelled diagram describe how a wave cut plat form is formed.(6mks)

d) Explain how the following factors influence development of coasts

i) Wave action (2mks)

ii) Nature of rocks(2mks)

e) Your class intends to carry out a field study on the features along the coast Kenya.

i) Why would they carry a reconnaissance study(3mks)

ii) Give three disadvantages of using observation to collect data (3mks)

9. (a) (i) Name **three** types of faults. (3mks)

 (ii) With the aid of clearly labelled diagrams, describe the formation

of the Rift Valley by compressional theory. (7mks)

 (ii) State **two** ways in which faulting influences drainage. (2mks)

 (b) Explain why most lakes in the Rift Valley have saline water. (6mks)

1. Your class undertook a field study on lakes formed through faulting.
2. Give **two** characteristic features of lakes you may have identified. (2mks)
3. State **three** uses of the lakes that you may have found. (3mks)
4. Give **two** benefits of studying lakes through field study. (2mks)

10.a) i) What is a Karst scenery? (3mks)

 ii) Name **two** features found in each of the following parts of a Karst scenery.

 - Surface (2mks)

- Underground (2mks)

b) Explain **three** factors which influence the formation of features in the Karst scenery. (6mks)

 c) State the significance of a Karst scenery. (4mks)

 d) You are supposed to carry out a field study of an area eroded by water.

 i) Give **three** reasons why you would need to prepare a working schedule. (3mks)

 ii) Why do you need a map of the area of study. (2mks)

iii) State **two** recommendations that you would make from your study to assist the local community to rehabilitate the eroded area. (2mks)