**312/1**

**GEOGRAPHY**

**Paper 1**

**MARCH/APRIL 2018**

**Time: 2¾ hours**

**MOI HIGH SCHOOL – KABARAK**

**END OF TERM EXAMINATION**

**Kenya Certificate of Secondary Education**

**312/1**

**Paper 1**

**GEOGRAPHY**

**INSTRUCTIONS TO STUDENTS**

* *This paper has* ***two*** *sections* ***A*** *and* ***B.***
* *Answer* ***ALL*** *the questions in section* ***A****. In section* ***B*** *answer questions* ***6*** *and any other* ***TWO*** *questions.*

**SECTION A**

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

1. (a) Give ***two*** reasons why it is necessary to study the Nebula cloud theory.

(2 marks)

(b) State ***three*** causes of variation in the atmospheric pressure on the surface of the earth. (3 marks)

2. (a) Differentiate between a normal fault and a reverse fault. (2 marks)

(b) Name ***three*** features associated with the Gregory Rift Valley of Kenya. (3 marks)

3. Describe ***three*** processes of ice movement. (5 marks)

4. (a) What is a wave? (2 marks)

(b) State ***three*** causes of ocean currents. (3 marks)

5. Give ***five*** qualities of a good sketch map. (5 marks)

**SECTION B**

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

6. Study the map of Kitale 1:50,000 (sheet 75/3) provided, and answer the the following questions.

(a) (i) Convert the ratio scale of the map to a statement scale. (2 marks)

(ii) Identify ***two*** methods used to represent relief on the map. (2 marks)

(b) Draw a sketch section between points X at 250210 and point Y at 290240. On it, mark and name; (5 marks)

(i) Seasonal swamp

(ii) Foot path

(iii) the hill

(c) Describe the distribution of settlements in the area covered by the map. (5 marks)

(d) Citing evidence from the map identify the social activities offered by Kitale municipality. (4 marks)

(e) Citing evidence from the map, explain ***three*** factors that have favoured livestock farming in the area covered by the map. (6 marks)

7. (a) Distinguish between volcanicity and vulcanicity. (2 marks)

(b) (i) Apart from composite volcano, name ***three*** other extrusive volcanic features. (3 marks)

(ii) State ***five*** characteristics of a composite volcano. (5 marks)

(c) Describe how a sill is formed. (5 marks)

(d) Explain how vulcanicity has influenced human activities. (10 marks)

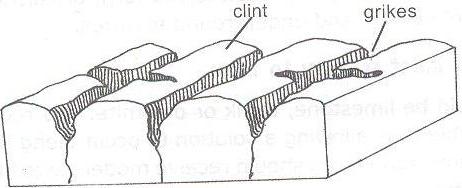
8. (a) (i) Name ***two*** sources of underground water. (2 marks)

(ii) Explain how the following factors influence the amount of underground water in limestone areas.

* Nature of the rocks (2 marks)
* Vegetation cover (2 marks)

(b) The diagram below shows a feature formed in limestone areas.

**Q**



**R**

**P**

(i) Name the parts marked **P, Q** and **R**. (3 marks)

(ii) Describe how the feature above is formed. (5 marks)

(c) State ***three*** characteristics of karst scenery. (3 marks)

(d) You are supposed to carry out a field study on a karst landscape.

(i) State ***four*** reasons why you would prepare a work schedule. (4 marks)

(ii) State ***two*** importance of studying karst features through fieldwork. (2 marks)

9. (a) (i) Differentiate between river discharge and river regime. (2 marks)

(ii) Describe how a river erodes its channel through the following processes.

* Abrasion. (3 marks)
* Solution (3 marks)

(b) (i) The diagram below shows river capture. Name the parts marked **J, K** and **L**. (3 marks)

J

L

K

(ii) State ***four*** causes of river rejuvenation. (4 marks)

(c) Describe how river braids are formed. (5 marks)

(d) Explain ***three*** significance of rivers to human activities. (6 marks)

10. (a) What is natural vegetation? (2 marks)

(b) Explain how the following factors influence the distribution of vegetation.

* Topography (2 marks)
* Drainage. (2 marks)

(c) The diagram below shows vegetation zones along a mountain slope. Use it to answer question (i) below.

Snow and bed rock

5000

W

Height in meters

4000

X

3000

Y

2000

1000

Savanna

0

(i) Name the zones marked **W, X, Y** and **Z**. (4 marks)

(ii) Give ***two*** reasons why there is no vegetation cover on top of the mountain. (2 marks)

(iii) State the characteristics of tropical savanna vegetation. (5 marks)

(d) Explain **four** positive effects of vegetation to human activities (8 marks)