**Name: ………………………………………………………… Adm No: ……….………**

**Name of your school: ……………………………………….…………………………….**

**Student’s Sign: ……………..…………………… Date: ………………………………**

**GEOGRAPHY**

**OCTOBER, 2017**

**TIME: 2 HRS 45 MIN**

**FORM THREE**

**MALIET JOINT EVALUATION EXAMINATION**

**Kenya Certificate of Secondary Education**

**312**

**GEOGRAPHY**

**INSTRUCTIONS TO CANDIDATES.**

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

**SECTION A: 25 MARKS**

1. (a) Name any ***two*** constituents of the atmosphere. (2 marks)

 (b) The diagram below represent the structure of the earth. Use it to answer the questions that follow.

**L**

 

**K**

**M**

 Name the parts marked**K, L**and **M.** (3 marks)

2. (a) State ***three*** characteristics of extrusive igneous rocks. (3 marks)

 (b) Name the metamorphic equivalent of the following rocks. (2 marks)

1. Peridotite
2. Mud stone

3. Use the diagram below to answer the questions that follows.

 

(a) Identify the weathering process shown above. (1 mark)

 (b) Describe how rocks are weathered through the above process. (4 marks)

4. a) State three characteristics of a river in the Old Stage. (3 mks)

 b) State two conditions that lead to deposition of silt at the mouth of a river(2 mks)

5. (a) What is underground water (1 mk)

 (b) Give two main sources of underground water (2 mks)

(c) The diagram below shows an artesian basin. Name the parts marked X and Y.

 (2mks)



**SECTION B: 75 MARKS**

***Answer question 6 (compulsory) and any other two from the remaining questions***

6. Study the map of Kitale 1: 50,000 (sheet 7513). Provided and answer the following questions.

 (a) (i) Identify **one** human made feature found at the grid 360179. (1mk)

 (ii) State **two** methods used to show relief in the area covered by the map. (2mks) (iii) Calculate the magnetic declination as at the time the map was published. (2mks)

 (b (i) Calculate the area of Kitale Municipality (2mks)

 (ii) Measure the distance of the dry weather road C 637 from junction 254285 to 311211. Give your answer in kilometers. (2mks)

(c) (i) Draw a rectangle measuring 10cm by 12cm between Easting 24 and 29 and Northing12 and 18 (1mk)

 (ii) On the rectangular, mark and name the following. (5mks)

Seasonal swamp.

River Koitobos.

Road C 641.

Sandrums’ bridge.

 (iii) Describe how relief has influenced settlement in the area covered by the map. (4mks)

 (iv) Describe the drainage of the area covered by the map. (4mks)

(d) Citing evidence from the map. Identify **Two** economic activities found in the area covered by the map. (2mks)

7. (a) Name;

 (i) **Two** types of faults (2mks)

 (ii) **Three** features resulting from faulting (3mks)

 (b) (i) List **three** Horst mountains found in East Africa (3mks) (ii) With aid of a well labelled diagram, describe how a horst mountain is formed

 (6mks)

 (c) (i) State **three** causes of vulcanicity (3mks)

 (ii) Give **two** characteristics of a shield volcano (2mks)

(d) Explain **three** ways through which faulting is of economic importance to man (6mks)

8. (a) (i) What is mining? (2mks)

(ii) Describe how deep-shaft mining is carried out. (4mks)

(b) (i) Name the method used in mining Trona on Lake Magadi in Kenya. (1mk)

(ii) Give **three** uses of Soda Ash. (3mks)

(iii) Explain **three** ways in which Trona mining contribute to the economy of Kenya. (6mks)

(c) (i) Name **three** oil producing countries in the Middle East. (3mks)

(ii) Explain **three** negative effects of mining on the environment. (6mks)

9. (a) (i) Distinguish between Aridity and desertification (2mks)

(ii) Identify **two** types of deserts surfaces (2mks)

(iii) Give **two** reasons why wind action is most active in hot deserts than in cold deserts. (4mks)

 (b) Explain the following process of wind erosion

 (i) Abrasion (2mks)

 (ii) Deflation (2mks)

 (iii) Attrition (2mks)

(c) (i) State **two** factors that influence the transportation of material by wind in deserts (2mks)

(ii) The diagram below shows some features of wind deposition.

Identify K,L and M (3mks)

**M**

**Side wind**

**Steep leeward**

 **slope**

**L**

**Gentle windward slope**

**K**

 (d) Your class is planning to carry out a field study of a desert environment.

 (i) State **three** ways of preparing for the field study. (3mks)

 (ii) Give **three** information that would be collected through observation in arid area (3mks)

10. (a) Differentiate between Agro-forestry and Afforestation. (2mks)

(b) (i) State **five** factors that have led to the reduction of the area under forests on the slopes of Mt. Kenya. (5mks)

(ii) Explain **four** measures that the Kenya Government is taking to conserve forests in Kenya. (8mks)

(c) Compare exploitation of softwood forests in Kenya and Canada under the following

 sub-headings:-

(i) Period of harvesting. (2mks)

(ii) Transportation of logs (2mks)

(d) Explain **three** problems facing forestry in Canada. (6mks)

**THE END**