

NAME: _____ INDEX NO. _____

DATE: _____ SIGN: _____

GATUNDU SOUTH SUB COUNTY FORM FOUR 2016 EVALUATION EXAM

312/1

GEOGRAPHY

PAPER I

JULY/AUGUST 2016

TIME: 2 $\frac{3}{4}$ HOURS

INSTRUCTIONS TO CANDIDATES

- The paper has two sections A & B
- Answer all questions in section A
- In section B, answer question 6 and any other two questions

SECTION A:

Answer all questions.

1. (a) Distinguish between absolute humidity and relative humidity. (2 Mks)
(b) State two factors that influence humidity. (2 Mks)
2. (a) What is an earthquake? (2 Mks)
(b) List three natural causes of earthquakes. (3 Mks)
3. (a) Identify two rift valley lakes that are fresh. (2 Mks)
(b) State three reasons why some lakes are fresh water lakes. (2 Mks)
(c) State two negative effects of lakes (2 Mks)
4. (a) List two methods used to determine the age of rocks. (2 Mks)
(b) List down three metamorphic processes. (3 Mks)
5. Define the term hydrological cycle. (2 Mks)

SECTION B.

Answer questions 6 and any other two questions from this section.

6. Study the map of MIGWAN (1: 50000 sheet 150/1) provided and answer the following questions.
 1. (a) What type of map is Migwani. (1 Mk)
(b) Give the magnetic variation of the map. (2 Mks)
(c) Measure the distance of the all-weather road in the North East part of the map. Give your answer in km. (2 Mks)
(d) Identify one natural feature located at grid square 9264. (2 Mks)
 2. Describe the drainage of the area covered by the map. (6 Mks)
 3. Explain any four factors that influence settlement in the area covered by the map. (8Mks)
 4. Citing evidence from the map give two economic activities carried out in the area covered by the map. (4 Mks)
7. (a) (i) Differentiate between river discharge and river capacity. (2 Mks)
(ii) State two factors which influence the occurrence of surface runoff. (2 Mks)
(b) Describe two ways in which a river transports its load. (6 Mks)
(c) Explain two causes of river rejuvenation. (4 Mks)

- (d) With the aid of well labeled diagrams, describe the process of river capture. (6 Mks)
- (e) You intend to carry out a field study on a river at its old stage.
- (i) Outline three characteristics of the river you are likely to identify. (3 Mks)
 - (ii) Give two reasons why it is important to study rivers through field work. (2 Mks)
- (8). (a) (i) What is soil leaching? (2 Mks)
- (ii) State two factors that contribute to soil leaching. (2 Mks)
 - (iii) Explain four factors influencing soil formation. (8 Mks)
 - (iv) State three types of intrazonal soils. (3 Mks)
 - (v) Outline the characteristics of the following soils.
 - (a) Chernozem. (2 Mks)
 - (b) Latosols (2 Mks)
 - (vi) You intend to carry out a field study on soils within the school vicinity.
 - (a) State three methods of data collection you would use. (3 Mks)
 - (b) Name three properties of soil you are likely to identify. (3 Mks)
9. (a) What is folding. (2 Mks)
- (b) Name four types of folds. (4 Mks)
- (i) Name four orogenies known in geological history. (4 Mks)
 - (ii) With well-labelled diagrams, use the plate tectonics theory to explain the formation of fold mountains. (6 Mks)
- (c) Apart from Fold Mountains name three features resulting from folding. (3 Mks)
- (d) Explain three ways in which Fold Mountains influence human activities. (6 Mks)
10. (a) Give the difference between minerals and rocks. (2 Mks)
- (b) (i) Explain the three ways through which sedimentary rocks are formed. (6 Mks)
 - (ii) Outline three ways through which rocks become metamorphic. (3 Mks)

(c) Classify the rocks listed in the table below

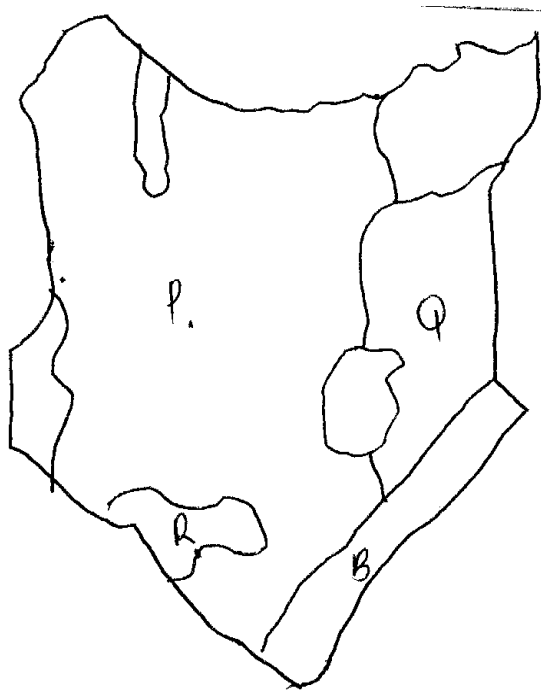
Name of Rock	Class
Marble	
Granite	
Limestone	

(3 Mks)

(d) Explaining the meaning of the following terms in relation to rocks

- (i) Relative dating. (2 Mks)
- (ii) Absolute dating. (2 Mks)

(e) The map of Kenya below shows the distribution of major rock types in Kenya. Use it to answer the questions below.



- (i) Name the major rock types found in the area marked Q and R. (2 Mks)
- (ii) Account for the distribution of rocks in the areas marked P and B. (2 Mks)
- (iii) State three ways in which rocks contribute to the Kenyan economy. (3Mks)

