

312/1

GEOGRAPHY

Paper 1

2¾ Hours

FORM 4 MID-YEAR EVALUATION EXAMINATION 2018

KENYA CERTIFICATE OF SECONDARY EDUCATION

GEOGRAPHY

Paper 1

2¾ Hours

Instructions to Candidates

- *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.*
- *Candidates should check to ascertain that all pages are printed and that no questions are missing.*
- *Answer the questions in English.*

For official use only

SECTION A

QUESTION NUMBER	1	2	3	4	5	SUB-TOTAL

SECTION B

QUESTION NUMBER	6	7	8	9	10	SUB-TOTAL

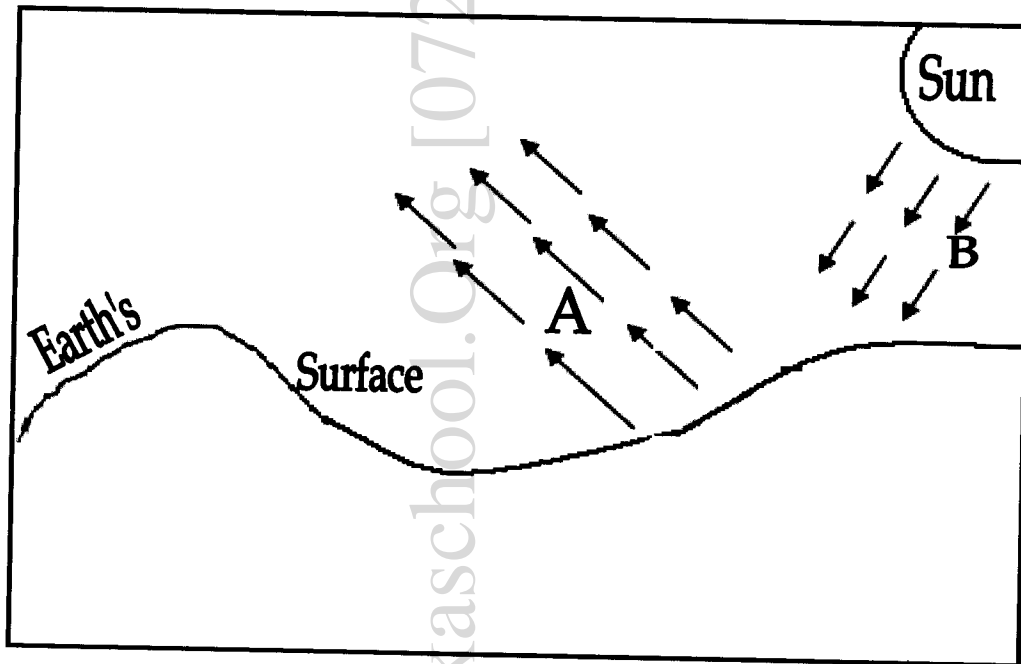
GRAND TOTAL

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SECTION A

Answer all the questions in this Section

- a) State one relationship between Geography and Biology. (2marks)
 - b) Calculate the Longitude of a place whose local time is 10:30a.m if the local time at 45°E is 2:00p.m. (2marks)
- a) Define temperature inversion. (2marks)
 - b) Name two layers of the atmosphere that experience negative lapse rate. (2marks)
- a) State three changes that occur in rocks when they become metamorphosed. (2marks)
 - b) Give three characteristics of sedimentary rocks. (3marks)
4. The diagram below shows how the atmosphere is warmed by the sun. Use it to answer the questions that follow.



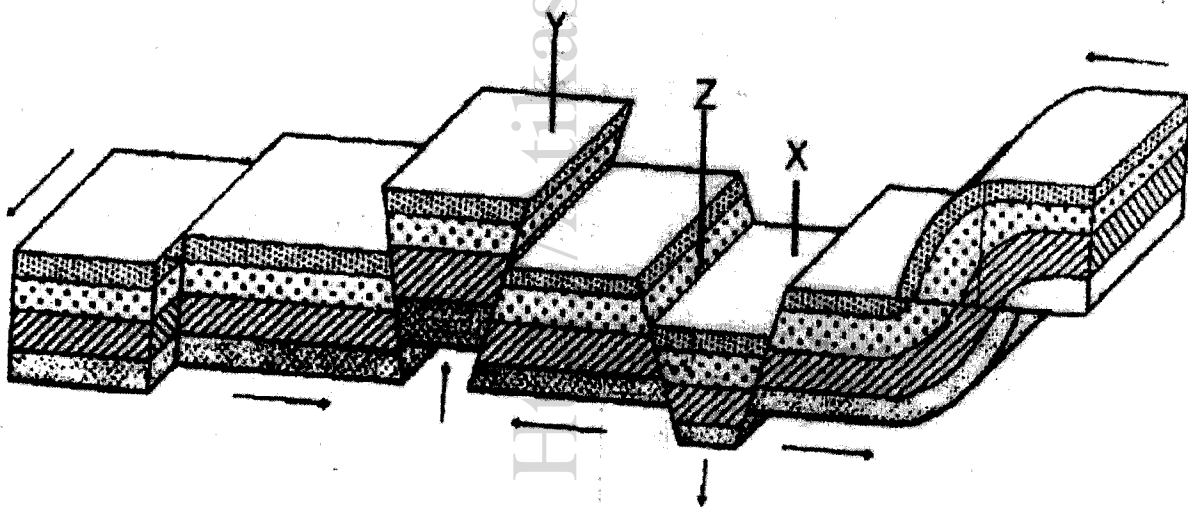
- a) Name the processes marked A and B. (2marks)
 - b) State three factors causing the development of Ocean currents. (3marks)
- a) Differentiate between earthquake intensity and magnitude. (2marks)
 - b) Name four earthquake zones in the world. (4marks)

SECTION B

Answer Question 6 & any other two questions

6. Study the map of Oyugis sheet 130/1 1:50,000 and answer the following questions.

- a) (i) Convert the R.F scale of the map to statement scale (show your working) (2marks)
- (ii) Measure the distance of the dry weather road from the junction at Kotieno to grid reference 770414. Give your answer in kilometers. (2marks)
- (iii) Calculate the area between all weather road to Rongo and the dry weather road to Ogembo. (3marks)
- b) (i) Identify two methods that have been used to represent relief in area south of working 20. (2marks)
- (ii) Name two physical features from in grid square 9021. (2marks)
- (iii) Give the latitudinal extent of the area where by the map. (2marks)
- c) Describe three factors that have influence the distribution of settlement in the area covered by the map. (6marks)
- d) Getting evidence from the map, give thee social functions of Oyugis. (6marks)
7. a) (i) Define faulting. (2marks)
- (ii) Outline three causes of earth movements. (3marks).



(i) Name the features labeled X, Y & Z

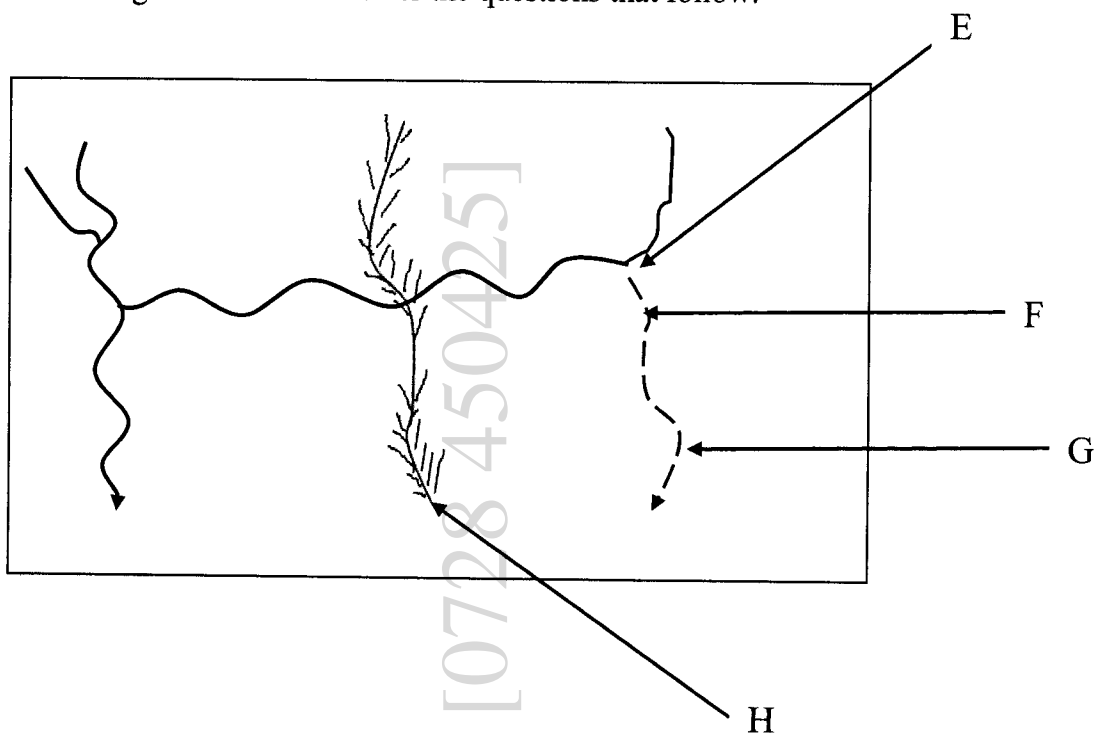
(3marks).

- (ii) Give three examples of the feature labeled Z in Kenya. (3marks)
- (c) Explain four ways in which faulting is of significance to human activities. (8marks)
- (d) Members of your class are planning to conduct field study of the Rift Valley on the section of the Gregory Rift Valley in Kenya
- (i) State three limitations of using observation as a method of collecting data. (3marks)
- (ii) Give three characteristics of the Gregory Rift Valley are likely to observe. (3marks)
8. a) (i) Define the term Natural vegetation. (2marks)
- (ii) State three climatic factors influencing distribution of vegetation (3marks)
- b) (i) Give two zones of the temperate grasslands (2marks)
- (ii) State three characteristics of forest. (3marks)
- c) (i) Outline four uses of savanna grassland vegetation in Kenya. (4marks)
- (ii) Explain three ways in which vegetation of the Nyika in Kenya has adapted to the climatic conditions in the area the Area. (6marks)
- d) (i) You are required to carry out a field study to determine the relationship between climate and vegetation in your sub county.
- (ii) Give two reasons why sampling would be appropriate for the study. (2marks)
9. a) (i) Differentiate between mass wasting and mass movement. (2marks)
- (ii) State three characteristics of a landslide. (3marks)
- b) (i) Give any four evidence of soil creep. (4marks)
- (ii) Explain three ways in which vegetation may cause weathering of rocks. (6marks)
- c) You are planning to carry out a field study of types of mass wasting.
- (i) Identify three methods you would use to collect data (3marks)
- (ii) State three follow up activities you are likely to do. (3marks)
- d) Explain two ways in which rocks weathering influences human activities. (4marks)

10. a) (i) Define a drainage pattern (2marks)

(ii) Identify three factors that influence the development of drainage pattern (2marks).

b) Use the diagram below to answer the questions that follow.



(i) What is the process shown above (1mark)

(ii) Identify the features marked E, F, G & H. (4marks)

c) (i) State three conditions necessary for the development of the above feature. (3marks)

(ii) Give four factors that contribute to the occurrence of river rejuvenation. (4marks)

d) (i) Give three reasons why the class many decide to use a questionnaire as a method of data collection. (3marks).

(ii) State two ways in which the information collected during the field study on the river would be useful to the local community. (2marks)

(iii) Identify three activities that learners will be involved in during the study (3marks).

END