**FORM 4 PAPER 1 END TERM 1 2017**

Answer all the questions in Section A

Answer question 6 and any other two questions from Section B

**SECTION A**

**Answer all the questions in this section**

1. a) i) What is the solar system? (1mk)

ii) Name three objects involved in the formation of an eclipse (3mks)

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b) Name one of the minor bodies within the solar system (1mk)

1. a) State two conditions for the formation of fog. (2mks)

b) Name three factors that determine the amount of solar radiation which reaches the surface of the earth (3mks)

1. a) List three characteristics of summer solstice (3mks)

 b) What is an isobar? (2mks)

1. a) Name two conditions which occur when the materials have been forced to move horizontally (2mks)

 b) State three causes of earth movements (3mks)

1. a) Name two types of longitudinal waves (2mks)

 b) State three types of earth quakes (3mks)

**SECTION B**

**Answer question 6 and any other two questions from this section**

1. Study the map of BUSIA (1:50000) sheet 101/1 provided and answer the following questions
2. i)Name two manmade features found at grid square 2331.(2mks)

ii) Calculate the bearing of the air photo principal point found at grid square 3841 from trigonometrical station found at grid square 3546. (2mks)

iii) What is the altitude of the highest point in the area covered by the map. (2mks)

b) i) Measure the distance of dry weather road from the junction at matayo to junction at Bumala market.(Give your answer in kilometers and meters.) (2mks).

ii)Give three types of natural vegetation found in the area covered by the map.(3mks)

ii) Citing evidence from the map identify 5 social services offered in the area covered by the map.(5mks)

c) i) Using a scale of 1cm to represent 40m draw a cross section from grid reference 300350 to 360390.(4mks)

ii) On it mark and name the following.(3mks)

 Hill

 Road

 river

 d iii Calculate vertical exaggeration.(2mks)

 ii) Describe the relief of the area covered by the map. (6mks)

1. a) Name three types of faults

 ii) A part from compressional forces, explain two other processes that may cause faulting.

 b) With the aid of diagram, describe how compressional forces may have led to the formation of the Great Rift valley (8mks)

 c) Explain five ways in which faulting is of significance to human activities (10 mks)

1. a) i) Define the term drainage basin (2mks)

ii) Describe two ways in which gorges form (4mks)

b) State four causes of river deposition (4mks)

c) Explain how the following are formed

1. Antecedent drainage system (3mks)
2. Radial drainage pattern (3mks)

d) Geography students in a school near river Tana intend to carry out a field study on the old stage of a river

1. State three preparations they would undertake before the study (3mks)
2. Name three features they are likely to identify outside the river channel (3mks)
3. State three problems they are likely to experience during the study (3mks)
4. a) Define the term ice sheet ( 2mks)

b i) Name five types of moraines (5mks)

 ii) State three main ways in which ice moves (3mks)

 c) Describe how a tarn is formed (5mks)

d) What is the difference between a Roche moutonee and a crag and tail (2mks) .

e) Explain the significance of glaciated landscape. (8mks)

1. The diagram below represents features in a limestone area. use it to answer question

 

1. i) Name the features marked X, V and W (3mks)

ii) Describe how the feature marked Y is formed (6mks)

1. i) What is an artesian basin (2mks)

 ii) Explain three factors which influence the formation of features in limestone area (6mks)

1. You are supposed to carry out a field study of an area eroded by water .
2. Give three reasons why you would need a map of the area of study. (3mks)
3. Name two erosional features they are likely to identify during the field study (2mks)
4. State three recommendations that you would make from your study to assist the local community to rehabilitate the eroded area (3mks)