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## Muongano KCSE Pre-Trial Exam

*312/1*  
**GEOGRAPHY**  
*PAPER 1*  
*March/April 2017*  
*2¾ Hours*

### 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** questions. All answers must be written in the answer booklet provided.

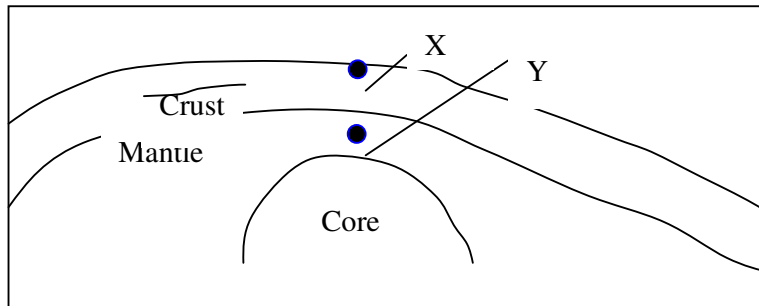
*This paper consists of 4 printed Pages*

*Candidates should check the question paper to ensure that all the pages are printed as indicated  
and no questions are missing*

**Turn Over**

**SECTION A:***Answer all questions from this section*

- 1 a) **Name the two layers** of discontinuities that are part of the interior structure of the earth. (2mks)  
 b) **State three** characteristics of the mantle. (3mks)
2. a) **What** is a rock? (2mks)  
 b) For each of the following sedimentary rocks, **name the resultant rock** that forms after metamorphism. (3mks)  
 i) Sandstone  
 ii) Limestone  
 iii) Clay
- 3 a) **Name three** types of weathering. (3mks)  
 b) **State two negative** effects of mass wasting. (2mks)
- 4 a) **Differentiate** between a playa and bajada (2mks)  
 b) **State three origins** of ground water. (3mks)
- 5 a) Study the diagram below about earthquakes and answer the questions that follow.



- i) **Name** parts X and Y (2mks)  
 ii) **Explain** how a tsunami occurs. (3mks)

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

6. Study the map of Kitale provided (*sheet 75/3*) provided and answer the questions that follow
- a) i) **Give** the longitudinal extent of the area covered by the map. (2mks)  
 ii) **Convert** the ratio scale of the map extract into a statement scale. (2mks)  
 (iii) **What is the four figure grid** reference of Rogurr Hill. (2mks)
- b) (i) Calculate the area of Kiptaber forest enclosed by the district and forest boundary. (2mks)  
 ii) Apart from forests, **name three other types** of natural vegetation found in the area covered by the map. (3mks)

- c) i) **Draw a square** 10 cm by 10 cm to represent the area enclosed grid squares 3016 and 3516. (1mk)
- ii) On the square, **mark** and **name** the following
- River Koitabos (1mk)
  - All water road loose surface. (1mk)
  - Bridge (1mk)
  - Dry weather road. (1mk)
- d) **Describe the relief** of the area covered by the map. (5mks)
- e) Citing evidence from the map, **state two functions** of Kitale town. (4mks)
7. a) **What is meant** by Orogenesis? (2mks)
- b) **Differentiate** between symmetrical and asymmetrical folds. (2mks)
- c) **Name two** fold mountains in Africa. (2mks)
- d) Apart from fold mountains **name other three features** resulting from folding. (3mks)
- e) **Explain five ways** in which folding is of significance to human activities. (10mks)
- f) You intend to carry outfield study of a landscape affected by folding.
- i) **State four reasons** why it is necessary to conduct a reconnaissance of the area of study. (4mks)
  - ii) **List two sources** of information you are likely to use before the actual field study. (2mks)
- 8 a) **What** is natural vegetation? (2mks)
- b) **Name** the temperate grasslands found in the following countries.
- i) Canada (1mk)
  - ii) Russia (1mk)
  - iii) Australia (1mk)
- c) **Explain how** precipitation influences distribution of vegetation in an area. (4mks)
- d) **Describe the characteristics** of the savannah vegetation region. (6mks)
- e) **Give two reasons** why the tundra region has scanty vegetation. (2mks)
- f) You are planning to carry out field study in a forest within your district.
- i) **Give four reasons** why it is important to seek permission from school administration. (4mks)
  - ii) **Identify four challenges** you are likely to encounter during the field study. (4mks)

9. a) **What is** a glacier? (2mks)
- b) **Give two reasons** why there are no ice sheets in East Africa. (2mks)
- c) **Describe** the formation of the following glacial features.
- i) Hanging valley (6mks)
  - ii) Arete (6mks)
- d) **Name three erosional** features found in glaciated lowland area. (3mks)
- e) **Explain three positive effects** of glaciations in lowland areas. (6mks)
- 10 a) i) **What is** a desert? (2mks)
- ii) **State three factors** which contribute to the development of deserts. (3mks)
- b) **Explain three ways** through which wind transports its load. (6mks)
- c) **Describe how** the following features found in hot deserts are formed.
- i) Zeugen (5mks)
  - ii) Rock pedestal (5mks)
- d) You are supposed to carry out a field study of a semi arid area in Kenya.
- i) **Give two reasons** why you would need a map of the area of study. (2mks)
  - ii) **Identify two methods** you would use to record the observations. (2mks)