

**312 / 1**  
**GEOGRAPHY**  
**PAPER 1**  
**JULY / AUGUST 2010**  
**TIME 2 ¾ HOURS**

**KWANZA DISTRICT JOINT EVALUATION EXAM – 2010**  
*Kenya Certificate of Secondary Education (K.C.S.E)*

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**INSTRUCTIONS TO CANDIDATES.**

**This paper has two sections: A & B**

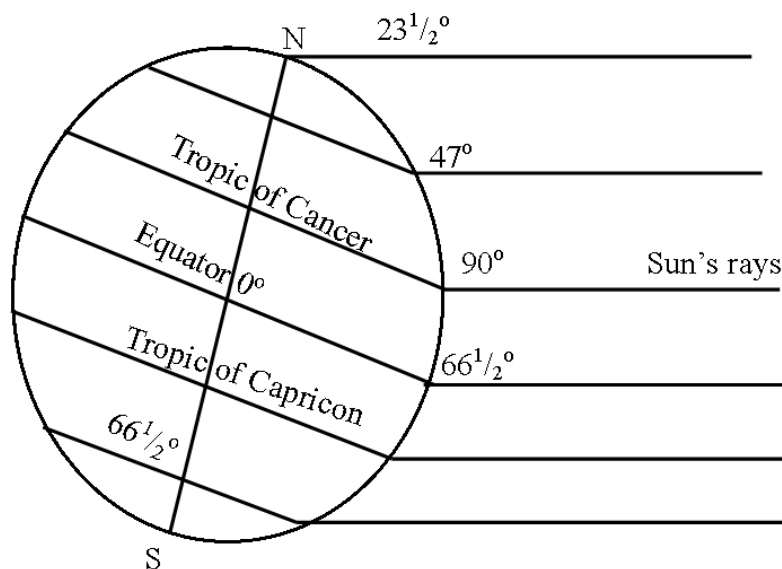
- Answer **all** the questions in Section A.
- In section B answer Question 6 and any other **two** questions.
- All answers must be written in the answer booklet provided.

*This paper consists of 4 printed pages.  
Candidates should check the question paper to ensure that all pages are printed as indicated  
and no questions are missing*

## **SECTION A**

**Answer all the questions in this section.**

1. a) Give three factors that hinder weather forecasting in Kenya today. (3mks)  
b) Study the diagram below and use it to answer questions b (i) and (ii).

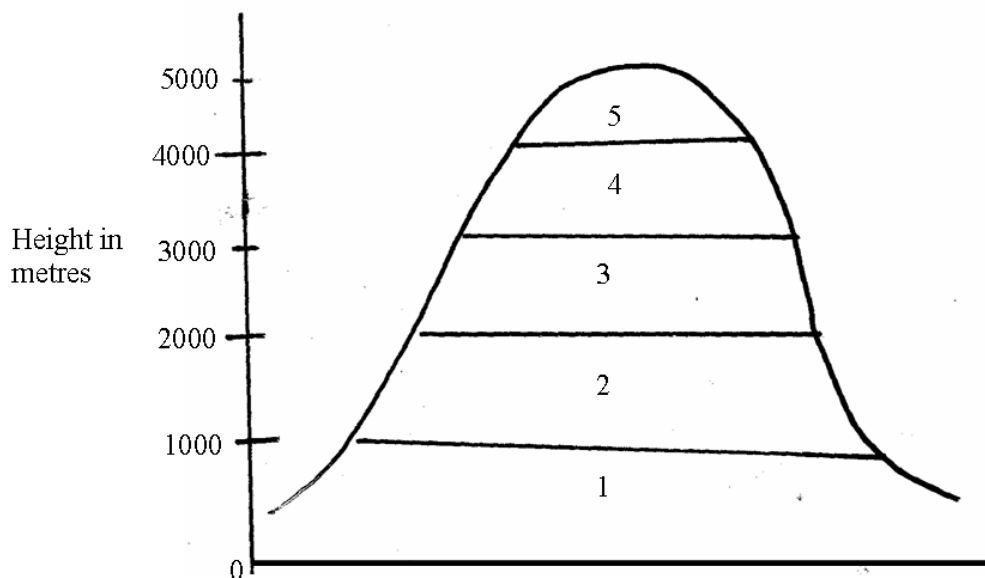


- b) i) Name the type of the solstice shown in the diagram. (1mk)  
ii) Give the type of the movement of the earth that result to the solstice shown in the diagram above. (1mk)
2. a) Name the two features resulting from fissure emptions. (2mks)  
b) State three constructive consequences of vulcanicity. (3mks)
3. a) Differentiate soil profile from soil catena. (2mks)  
b) State three classification of soil according to soil formation. (3mks)
4. Describe the formation of an anticlinal fault. (4mks)
5. a) Name the two scales used to measure earthquake. (2mks)  
b) Define the following terms associated with earth quakes.  
i) Asseimic zone (1mk)  
ii) Epicentre (1mk)  
iii) Seismic focus (1mk)  
iv) Seismograph (1mk)

**SECTION B**

**Answer question 6 and Any other two questions from this section.**

6. Study the map of Belgut 1: 50000 (Sheet 117/3) provided and answer the following questions:
- a) i) What is the approximate height of Sikowon Hill to the North West of Belgut. (2mks)
  - ii) What is the bearing of Marumbasi School at grid reference 297547 from Singaromik School at grid reference 332594. (2mks)
  - iii) Calculate the area of the section of Kisii District covered by Belgut map (2mks)
  - iv) Calculate the length in kilometers of the provincial boundary covered by the section of Kisumu District in the Belgut map. (2mks)
- b) I) Using a vertical scale of 1cm represent 40m draw a cross – section between Grid reference 250570 to 320570. (6mks)
- On it mark and name:
- i) Escarpment.
  - ii) Papyrus swamp
  - iii) Loose surface road.
- II) Calculate the vertical exaggeration of your cross – section (2mks)
- c) Citing evidence from the map explain 3 economic activities taking place in the area covered by the map (6mks)
- d) Citing evidence from the map describe the vegetation in the area covered by the map. (3mks)
7. a) Name two types of desert landscapes (2mks)
- b) i) With the aid of diagrams describe the formation of a pediplain. (8mks)
- ii) Apart from pediplains, list two other features resulting from action of water in deserts. (2mks)
- c) i) Using well – labelled diagrams, describe the formation of a barchan. (8mks)
- ii) Besides sand dunes give two features resulting from wind deposition. (2mks)
- d) State three benefits of desert landscapes to man. (3mks)
8. The diagram below shows vegetation Jones. Use it to answer that follow:



- a) Name the vegetation zones marked 1, 3, 4 and 5. (4mks)
- b) Explain how the following factors influence vegetation.

- i) Aspect. (4mks)
  - ii) Soils (4mks)
  - iii) Human Activities (4mks)
  - c) Give five characteristics of desert vegetation (5mks)
  - d) You intend to carry out a field study on vegetation at Kaboret forest.
    - i) State two hypothesis you would formulate for the field study. (2mks)
    - ii) State two problems you are likely to face during the field study. (2mks)
- 9.
- a) Explain how each of the following lakes were formed.
    - i) Lake Victoria (3mks)
    - ii) Lake Sare (3mks)
    - iii) Lake Nasser. (3mks)
  - b) State the difference between the lakes on the Eastern and Western areas of the Eastern Africa Rift Valley. (6mks)
  - c) Explain any five significance of lakes. (10mks)
- 10.
- a) Differentiate between endogenic and exogenic forces. (2mks)
  - b) Explain how the following factors influence weathering.
    - i) Climate. (2mks)
    - ii) Chemical composition of the rock. (2mks)
    - iii) Rock texture. (2mks)
  - c) Explain three ways through which rocks may be weathered chemically. (6mks)
  - d) Explain three physical effects of weathering. (6mks)
  - e) State five causes of soil creep. (5mks)