

312/1  
GEOGRAPHY  
Paper 1  
MARCH/APRIL 2017  
Time: 2¾ hours

MOI HIGH SCHOOL - KABARAK  
END OF TERM ONE EXAMINATION  
FORM FOUR

Kenya Certificate of Secondary Education  
312/1  
GEOGRAPHY

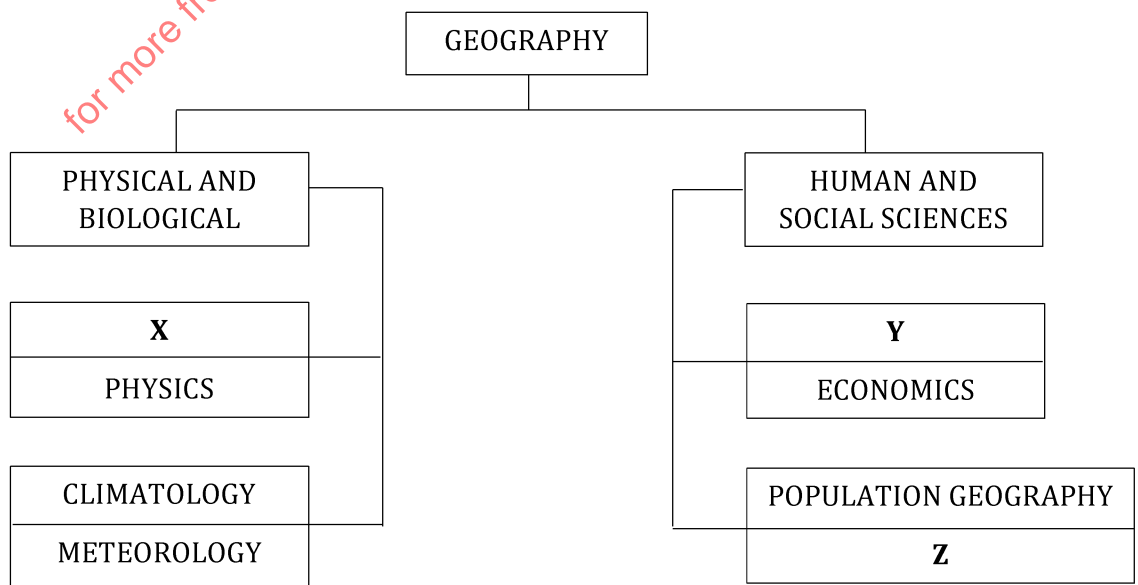
INSTRUCTIONS TO STUDENTS

- 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.

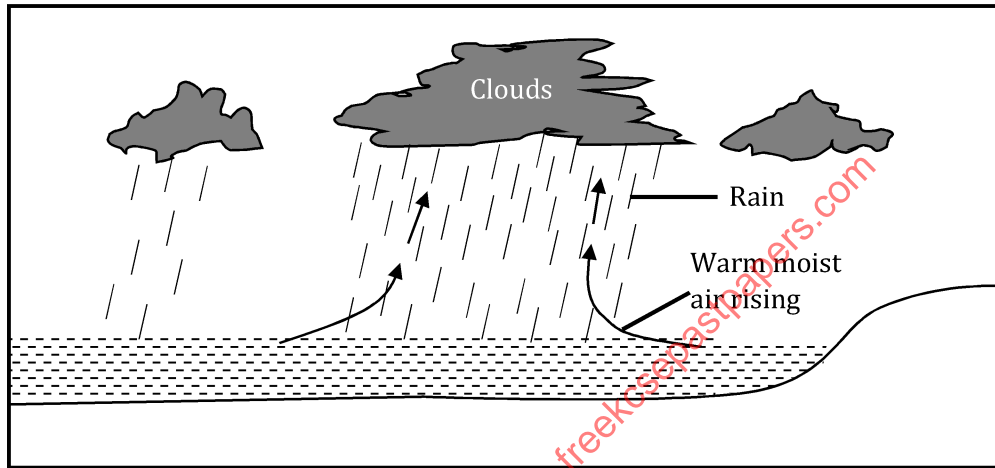
SECTION A

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

1. (a) Show how Geography is related to Chemistry. (2 marks)
- (b) The diagram below shows the interrelationship between Geography and other disciplines.



- (i) Identify the disciplines marked **X** and **Y**. (2 marks)
- (ii) Name the subject marked **Z**. (1 mark)
2. (a) Give the forces responsible for the earth's shape. (2 marks)
- (b) State **three** effects of revolution of the earth. (3 marks)
3. Use the diagram below to answer the question below:



- Describe how the type of rainfall shown above is formed. (5 marks)
4. (a) Apart from gravitative pressure, give **two** other natural causes of earthquakes. (2 marks)
- (b) State **three** effects of earthquakes on human environment. (3 marks)
5. Describe processes leading to the formation of drumlins. (5 marks)

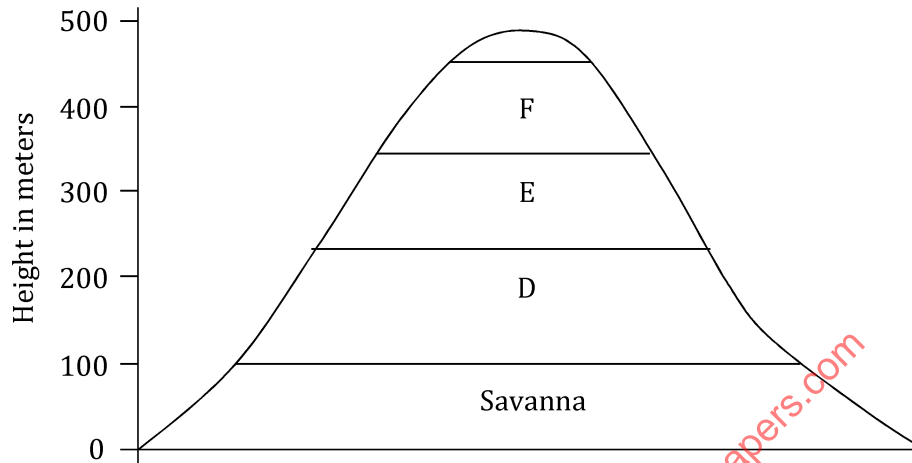
### SECTION B

*Answer question 6 and any other TWO questions from this section.*

6. Study the map of Kitale 1:5000 (sheet 75/3) provide and answer the following questions.
- (a) (i) What is the magnetic variation of the map? (1 mark)
- (ii) Calculate the area of the land bounded by All Weather Road Loose surface C638, C641 and Dry weather road C637. (2 marks)
- (iii) What is the six figure grid reference of the trigonometrical station in Kitale DC. (2 marks)
- (b) (i) Give **two** methods used to represent relief on the map. (2 marks)
- (ii) Citing evidence from the map, give **four** economic activities carried out in the area covered by the map. (4 marks)

- (c) Draw a rectangle measuring 15cm by 10cm to represent the area enclosed by Eastings 24 and 33 and Northing 17 and 26. On the rectangle mark and name the following:
- (i) River Koitobos
  - (ii) The All Weather Loose Surface road C641.
  - (iii) The seasonal swamp
- (d) Describe the drainage of the area covered by the map. (4 marks)
- (e) Students from Swerwa Secondary School are supposed to carry out a field study on vegetation in Kiptaberr forest.
- (i) Give **three** uses of vegetation they are likely to identify during the study. (3 marks)
  - (ii) State **three** problems they are likely to experience during the study. (3 marks)
7. (a) What is a rock? (2 marks)
- (b) (i) Name **three** examples of intrusive igneous rocks. (3 marks)
- (ii) Describe **three** ways in which sedimentary rocks may be formed. (6 marks)
- (c) (i) Describe how a sill is formed. (4 marks)
- (ii) State the characteristics of a composite volcano. (4 marks)
- (d) Explain **three** ways in which volcanic mountains positively influence human activities. (6 marks)
8. (a) What is secondary vegetation. (2 marks)
- (b) Explain how the following factors influence the distribution of vegetation
- (i) Aspect (2 marks)
  - (ii) Precipitation (3 marks)
  - (iii) Identify **three** vegetation zones of Kenya. (3 marks)

- (c) (i) The diagram below represents zones of natural vegetation on a mountain within the tropical region. Use it to answer questions that follow.



Name the vegetation zones marked **D**, **E** and **F**. (3 marks)

- (ii) Describe the characteristics of tropical savanna vegetation. (8 marks)

(d) State **four** significances of vegetation to human activities. (4 marks)

9. (a) (i) What is a delta? (2 marks)
- (ii) State **three** conditions which favour formation of a delta. (3 marks)
- (iii) Give **two** examples of arcuate deltas in Africa. (2 marks)
- (iv) Apart from arcuate delta, name **two** other types of deltas. (2 marks)

(b) Describe the following processes of river erosion

- Abrasion (3 marks)
- Hydraulic action (4 marks)

(c) State **three** ways in which gorges are formed. (3 marks)

(d) (i) Using a well labelled diagram, describe dendritic drainage pattern. (3 marks)

- (ii) State **three** negative effects of rivers on human activities. (3 marks)

10. (a) Differentiate between soil texture and soil structure. (2 marks)
- (b) (i) Apart from organic matter, name **four** other components of soil. (4 marks)
- (ii) State **four** ways in which humus contributes to the quality of soil. (4 marks)
- (iii) Explain how the following farming practices may result to loss of soil fertility.
- Continuous irrigation (2 marks)
  - Overgrazing (2 marks)
  - Overcultivation (2 marks)
- (c) Give **three** soil farming processes (3 marks)
- (d) State how natural vegetation may prevent soil from erosion. (6 marks)

for more free past papers visit: [www.freekcsepastpapers.com](http://www.freekcsepastpapers.com)