

**312/1**

**GEOGRAPHY**

**PAPER 1**

**MARCH/APRIL 2017**

**TIME 2 <sup>3</sup>/<sub>4</sub> HOURS**

## **FORM FOUR JOINT EVALUATION 2017**

**Kenya certificate of education**

**GEOGRAPHY**

### **Instructions to candidates**

- a) This paper has **two** sections: **A** and **B**.
- b) Answer all the questions in section **A**.
- c) Answer question **6** and any other **two** questions from section **B**.
- d) All the questions must be written in the answer materials provided.
- e) This paper consist of 5 printed pages
- f) Candidate should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- g) Candidates should answer the questions in English.

## SECTION A

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

**1** State four proof that the shape of earth is spherical. (4mk)

**2** a) The diagram below shows a barchan



i) Name the part marked M. (1mk)

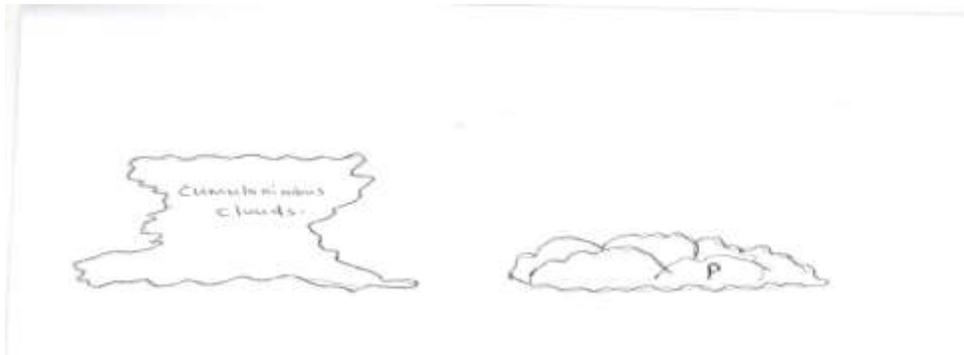
ii) Name the wind current marked N. (1mk)

b) Describe how a rock pedestal is formed. (3mk)

**3** a) State two characteristics of plutonic rocks. (2mk)

b) Describe how sedimentary rocks are formed through mechanical process. (3mk)

4 a) The diagram below shows types of clouds



i) Name the cloud marked P. (1mk)

ii) State two weather conditions associated with cumulonimbus clouds. ( 2mk)

b) Give three conditions that are necessary for the formation of dew. (3mk)

5 a) What is glaciations? (2mk)

b) State three ways in which ice moves in a high mountain. (3mk)

## SECTION B

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

**6** Study the map of Kitale 1: 50,000 (sheet 75/3 ) provided and answer the following questions.

(a) i) From the marginal information, name two districts that are covered by the map. (2mk)

ii) Calculate the area covered by Kapolet forest. Give your answer in square kilometres. (2mk)

iii) What was the magnetic declination of the map as at the time the map was drawn. (1mk)

b) Draw a rectangle measuring 10 CM by 15 CM to represent the area West of Easting 30 and south of northing 16. On it show;

i) Municipality/ township boundary

ii) Railway line

iii) All weather road loose surface C641

iv) River Koitobos. (5mk)

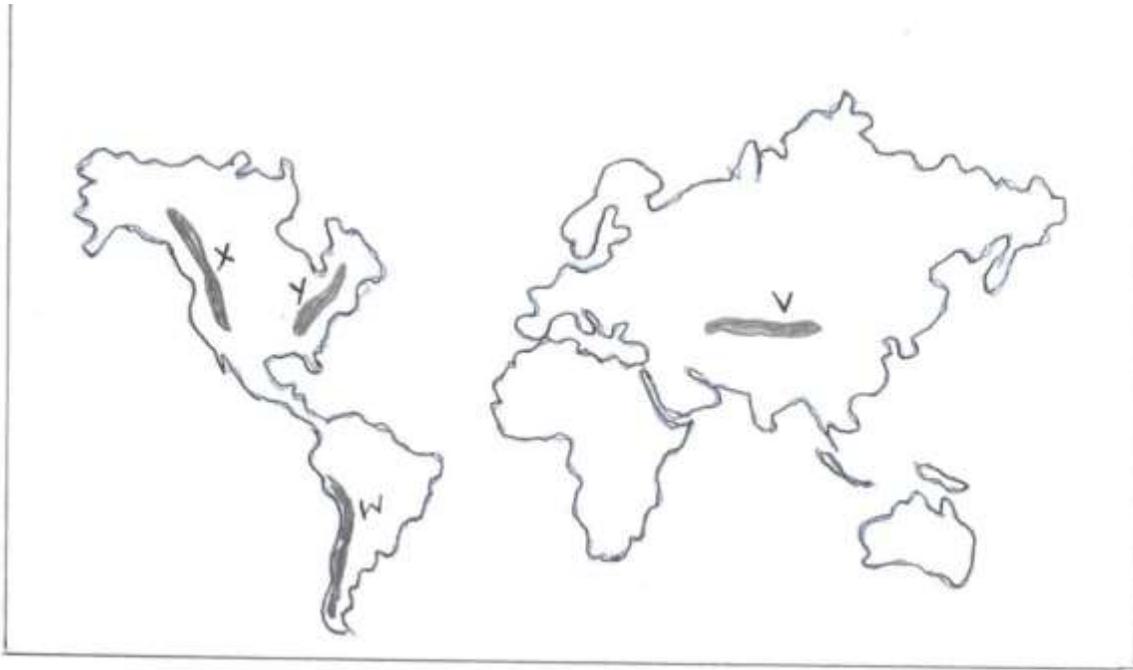
c) Citing evidence from the map, explain three factors that favour cattle rearing in the area. (6mk)

d) i) Describe the drainage of the area covered by the map. (5mk)

ii) Citing evidence from the map, state four economic activities carried out in the area shown on the map. (4mk)

**7** a) What is folding? (2mk)

b) The map below shows world distribution of fold mountains



i) Name the the fold mountains marked W Y Z. (3mk)

ii) Name the continent where the fold mountain marked V is found. (1mk)

c) With the help of well labelled diagrams, describe how fold mountains are formed. (11 mk)

d) Explain four ways in which fold mountains are of benefit to human activities. (8mk)

8 a) Explain how the following factors influence climate.

i) Aspect. (4mk)

ii) Latitude (4mk)

b) Describe the characteristics of equatorial climate. (6mk)

c) Name three examples of temperate grassland vegetation in the world. (3mk)

d) Explain four ways in which the vegetation of deserts adapt to the climatic conditions of the region. (8mk)

- 9 a) ( i) Differentiate between a watershed and an interfluves. (2mk)
- ii) List two ways in which water in a river flows. (2mk)
- b) Describe four ways in which a river transports its load. (8mk)
- c) Explain three causes of river rejuvenation. (6mk)
- d) Your class has decided to undertake a field study of the lower course of river Tana.
- i) Apart from deltas, name three other depositional features you are likely to identify. (3mk)
- ii) Describe four conditions that are necessary for the formation of deltas you are likely to identify. (4mk)
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- 10 a) (i) What is soil catena. (2mk)
- ii) List four processes that influence the development of a soil profile. (4mk)
- b) Name three components of a soil. (3mk)
- c) Explain how the following factors influence formation of soil.
- i) Living organisms. (4mk)
- ii) Topography. (4mk)
- d) A form four class decided to undertake a field study in an area with massive soil erosion.
- i) List four activities they are likely to carry out while in the field. (4mk)
- ii) State four measures to control soil erosion they are likely to come up with after the study. (4mk)

