

312/1
GEOGRAPHY
PAPER 1
JULY / AUGUST 2010
Time: 2 ³/₄ Hours

MANGA DISTRICT JOINT EVALUATION TEST – 2010
Kenya Certificate of Secondary Education (K.C.S.E)

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INSTRUCTIONS TO CANDIDATES

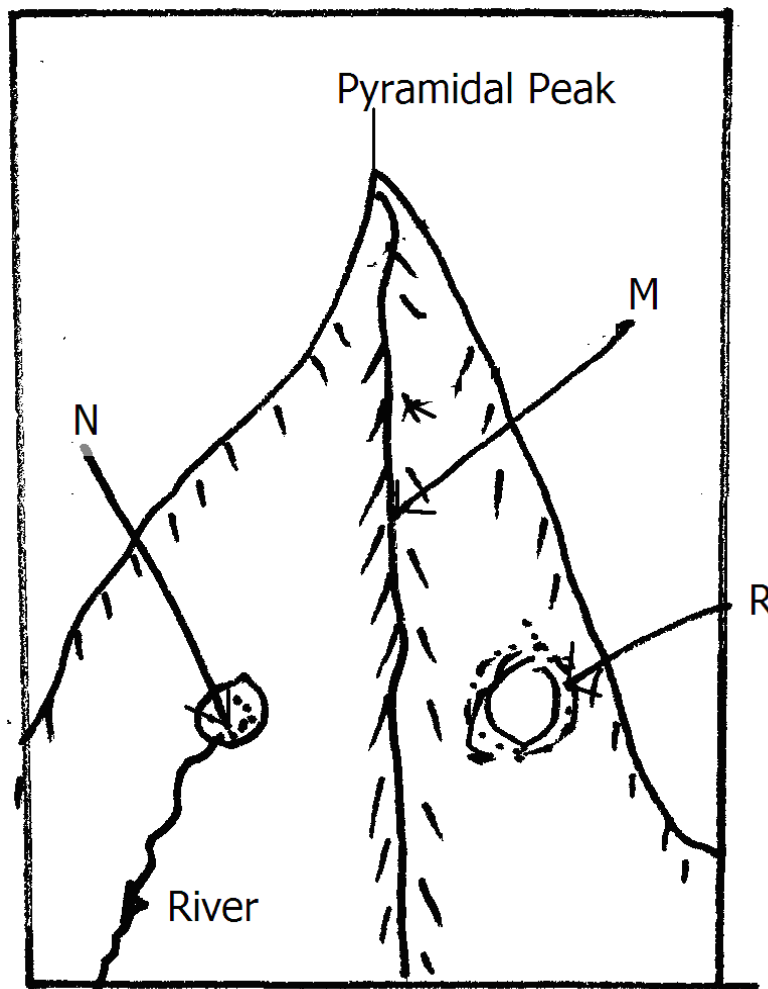
1. Answer all questions in Section A
2. In Section B answer question 6 and any two others.
3. Use of diagrams where necessary marks may be awarded

*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 questions in this section

1. a) What are anabatic winds? (2mks)
b) Give three factors which influence the direction of the wind (3mks)
2. a) Define the solar system (2mks)
b) State any FOUR proofs which show that the earth is spherical (4mks)
3. a) The diagram below shows features as a result of glaciation. Use it to answer the questions that follow



- i) Identify the features labeled M and N (2mks)
- ii) Name two processes through which feature marked R is formed (2mks)
- b) How does the gradient of the land affect ice movement? (2mks)
4. a) Name TWO examples of organically formed sedimentary rocks (2mks)
b) Outline TWO methods used in estimating the age of rocks (2mks)
5. a) Differentiate between oceans and seas (2mks)
b) Give TWO causes of vertical movement of ocean water (2mks)

SECTION B

Answer question SIX and ANY other two questions in this section.

6. Use the map extract of Belgut Sheet no. 117/3, East Africa 1:50,000 (Kenya) provided to answer this question.
- a) i) Name TWO different types of units used in the linear scales provided. (2mks)
 - ii) What is the vertical interval of the contours used in the map? (1mk)
 - iii) Find the six figure grid reference of the all weather roads (loose surface) Junction at Chebirbei School found at the central area (2mks)
 - b) i) Calculate the area of the papyrus swamp found in the east of Kabianga and to the North of Northing 51. Give your answer in square kilometers. (2mks)
 - ii) Name THREE features found in grid square 4056. (3mks)
 - c) Draw a rectangle measuring 6cm by 12cm representing the area West of easting 30. On it, mark and label
 - i) Sondo River
 - ii) Kisumu District area
 - iii) Sikowon Hill
 - iv) Cheptuyey School (5mks)
 - d) i) Explain THREE factors which have influenced distribution of settlement in the area east of easting 35 (6mks)
 - ii) Describe the relief of the area represented by the map (4mks)
7. a) State FIVE processes through which soil is formed (5mks)
- b) i) Give any THREE factors which will influence the colour of soil (3mks)
 - ii) Outline SIX practices that are used to maintain soil fertility and quality in agriculture (6mks)
 - iii) State two major types of soils (2mks)
- c) Give the characteristics of latosols soils (4mks)
- d) You are to carry out a field study on the uses of soil around your school
- i) State TWO hypotheses of your study (2mks)
 - ii) State THREE problems you are likely to encounter during the fieldwork (2mks)
8. a) Describe THREE ways through which wind erodes (6mks)
- b) Describe how the following features are formed
 - i) Yardangs (4mks)
 - ii) Bajada (5mks)
 - c) Explain FIVE positive effects of desert features to human environment (10mks)

9. a) i) Name FOUR edaphic (soil) factors which influence the distribution of natural vegetation (4mks)
- ii) State the characteristics of forest vegetation in Kenya (5mks)
- b) Explain how the vegetation found in the arid and semi-arid region of Kenya has adapted to the climatic conditions of the area for its survival. (8mks)
- c) Name the type of grassland found in the following regions (4mks)
- i) Argentina
- ii) South Africa
- iii) North America
- iv) Australia
- d) Students from your school carried out fieldwork on vegetation along the slope around the school.
- i) Give TWO reasons why it was important to conduct a reconnaissance before the actual day of fieldwork (2mks)
- ii) Describe how one could get the height of tall trees without climbing them for measurements (2mks)
10. a) i) Give FOUR ways through which gorges can be formed (4mks)
- ii) Explain FIVE conditions which will make a river to deposit its load (10mks)
- b) Using a sketch diagram describe each of the following drainage patterns
- i) Radial (2mks)
- ii) Trellis (2mks)
- c) Describe how natural levees are formed (4mks)
- d) State THREE negative influences of rivers on the human environment (3mks)