

312/1
GEOGRAPHY
PAPER 1
July / August 2009
Time: 2 ¾ Hours

MANGA DISTRICT SECONDARY SCHOOLS
JOINT EVALUATION TEST - 2009
Kenya Certificate of Secondary Education (K.C.S.E)

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INSTRUCTION TO CANDIDATES:

This paper has Two Sections A and B .
Answer All questions in sections A.
In section B answer questions 6 and any other Two questions.
all questions must be written on the answer sheet 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 .

SECTION A

Answer all questions in this section

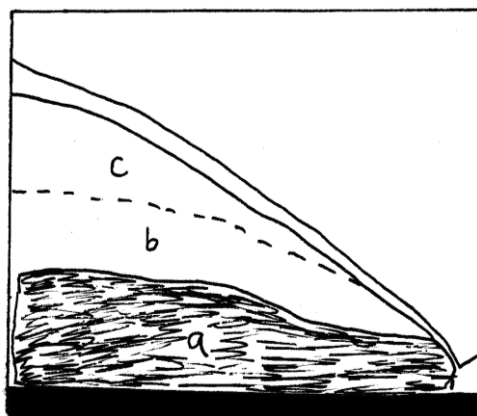
1. a) Explain the origin of the earth and the solar system according to the Nebular cloud theory. (4mks)
b) Name **two** other theories that explain the origin of the earth and the solar system apart from the Nebular cloud theory. (2mks)
2. a) List **two** zones of transition in the atmosphere. (2mks)
b) Give **three** evidences that the interior of the earth is hotter. (3mks)
3. a) Define the following terms.
i) River divide (1mk)
ii) A confluence (1mk)
iii) A river profile (1mk)
b) List **three** factors that influence the formation of a river. (3mks)
4. How is an oasis formed? (4mks)
5. List **four** characteristics of Mediterranean climate. (4mks)

SECTION B

Answer question six and any other two questions.

6. Study the map provided (Kericho sheet 117/4) and answer the following questions.
 - a) i) Give a **six** grid reference for a trigonometrical station (117S 6A) located to the north of the area covered by the map. (1mk)
ii) Name **two** man made features found in grid square 5662 (2mks)
iii) Measure the length of the dry weather road E222 from the junction at Kipchimchim (grid reference 530640) to the junction with the all weather road in the grid square 5863 give your answer in kilometers (2mks)
 - b) Using a scale of 1 cm to represent 50m, draw a cross section from grid reference 510570 to grid reference 560570 (4mks)
On it mark and name:-
 - i) a bridge (1mk)
 - ii) all weather road (1mk)
 - iii) municipal boundary (1mk)
 - iv) calculate the vertical exaggeration of the cross-section you have drawn. (2mks)
 - c) Describe the relief of the area covered by the map. (4mks)
 - d) Students from a school in the area represented by the map carried out a field study to Kericho Town.
 - (i) State **two** objectives of their study. (2mks)
 - (ii) Name **two** districts represented on the map. (2mks)
 - (iii) State the importance of the prior visit in field work. (3mks)

7. a) i) What is faulting? (1mk)
 ii) With the use of a well labeled diagram explain how a reverse fault occurs. (5mks)
 iii) State **two** other types of faults apart from reverse faults. (2mks)
- b) Describe how a rift valley forms through tensional forces. (4mks)
- c) Explain **three** ways in which features resulting from faulting are of economic importance to man. (6mks)
- d) You intend to carry out a field study of the landforms around your school.
 i) State **two** hypotheses you are likely to formulate for the study. (2mks)
 ii) Apart from dividing your class into groups, in what three other ways will you prepare for the study.
 ii) In what **two** ways is dividing the class into groups important? (2mks)
8. a) i) Differentiate between intrazonal and azonal soils. (2mks)
 ii) Give **three** examples of a zonal soils (3mks)
- b) i) Explain **four** factors that influence soil formation. (8mks)
 ii) Give **two** factors that determine the colour of soil (2mks)
- c) i) What is soil erosion. (2mks)
 ii) Explain **four** ways in which vegetation prevents soil erosion. (8mks)
- 9 a) i) Name a country in Africa where temperate grassland is found. (1mk)
 ii) State **four** characteristics of temperate grasslands. (4mks)
- b) i) Explain **four** ways trees in the coniferous forests have adapted to the environmental conditions of the region. (8mks)
- c) You are required to carry a field study on a forest near your school. Describe the methods you would use to determine each of the following aspects of the trees in the forest.
 i) Age of the trees. (3mks)
 ii) Height of the trees. (3mks)
 iii) Tree species (3mks)
10. The figure below shows underground zones of saturation. Use it to answer question a (i)



- a) i) Identify the zones marked a, b, and c. (3mks)
 ii) Name **four** sources of groundwater. (4mks)
- b) Explain **four** ways in which groundwater is of significance to human activities. (8mks)

- c) i) Give **two** examples of lakes in East Africa that have formed due to crustal warping. (2mks)
- ii) Describe how the process of crustal warping leads to formation of lakes. (5mks)
- iii) State **three** other processes that lead to formation of lakes apart from crustal warping. (3mks)