

312 / 1

GEOGRAPHY

PAPER 1

KCSE MOCKS 2017

2 $\frac{3}{4}$ HOURS

INSTRUCTIONS TO CANDIDATES.

- ❖ This paper has two sections **A** and **B**.
- ❖ Answer all the questions in section **A**.
- ❖ In section **B**, answer question **6** and any other **TWO** questions.
- ❖ All answers must be written on the answer sheets provided.
- ❖ This paper consists of **4** printed pages.
- ❖ Candidates must check to ascertain that all the pages are printed and that no questions are missing.

SECTION A

Answer ALL questions in this section

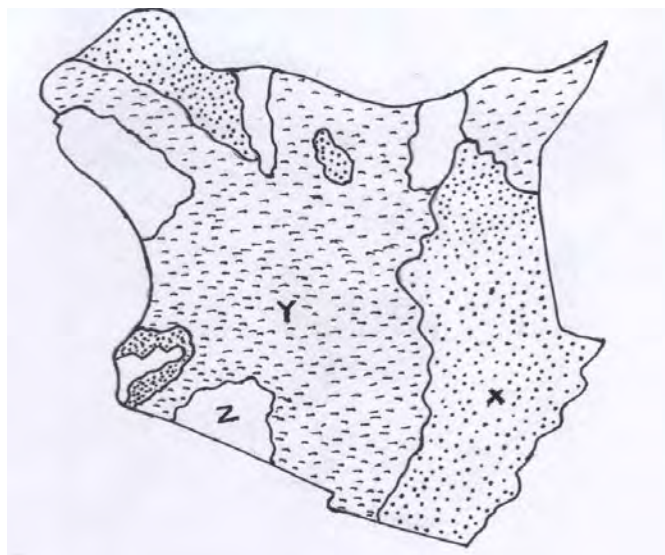
1. a) What is a planet? (2mks)
b) State **three** characteristics of planets. (3mks)
2. a) State **two** main features of the mantle. (2mks)
b) Give reasons why the crustal rocks are solid and cooler than those of the mantle. (4mks)
3. a) What is river rejuvenation? (2mks)
b) State **four** ways in which rivers erode. (4mks)
4. a) Name **two** mountains in East Africa that have glaciers. (2mks)
b) Give the differences between nunataks and pyramidal peaks. (2mks)
5. a) What is Biological weathering? (1mk)
b) Briefly explain how block disintegration occurs in physical weathering. (3mks)

SECTION B

Answer QUESTION 6 and any TWO other questions

6. Study the map of Kitale 1:50000 sheet 122/1 and answer the questions that follow.
 - a) i) Name **two** human features found in grid square 2320. (2mks)
ii) State the latitude and longitude of the south east corner of the map. (2mks)
 - b) i) What is the bearing of fair photo principal point at grid square 3426 from the air photo principal point at grid square 2931 (2mks)
ii) What is the length of the dry weather road (C640) from the junction at point M (345142) to the junction at point N (416201) give your answer in kilometer (2mks)
 - c) i) Describe the relief of the area covered by the map. (5mks)
ii) Name **three** natural vegetations found in the area covered by the map. (3mks)
 - d) i) Draw across section from point 410180 to grid reference 500180 using a scale of 1cm to represent 40meters (4mks)
ii) Name **three** social services citing evidence offered in the area covered by the map. (5mks)
7. a) i) What is a rock? (1mk)
ii) Outline the common characteristics of minerals. (4mks)

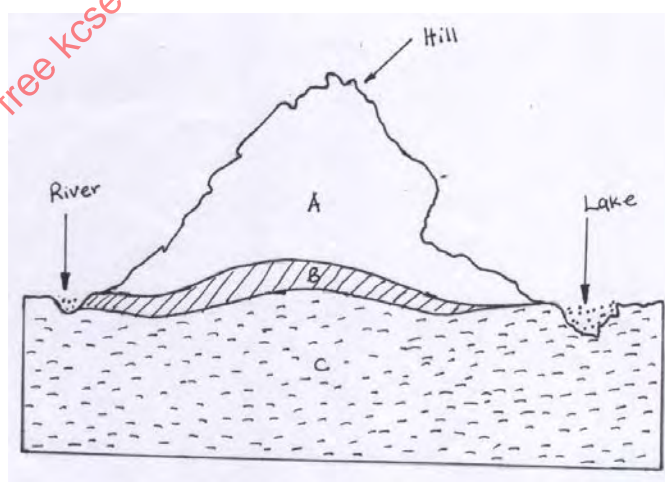
b) Map of Kenya showing rock distribution.



- i) Name the rocks marked **x y & z**. (3mks)
- ii) Give reasons why the rocks marked **x** are common near Coast. (3mks)
- c) i) What is rock metamorphism. (2mks)
- ii) Explain **three** process of rock metamorphism. (6mks)
- d) Explain the economic importance of rocks to people. (6mks)

- 8. a) i) What is a desert. (2mks)
- ii) Name three desert surfaces common in hot desert. (3mks)
- b) i) **Give three** reasons why wind is an effective erosion agent in hot deserts. (3mks)
- ii) Explain how the artesian well is formed in deserts. (6mks)

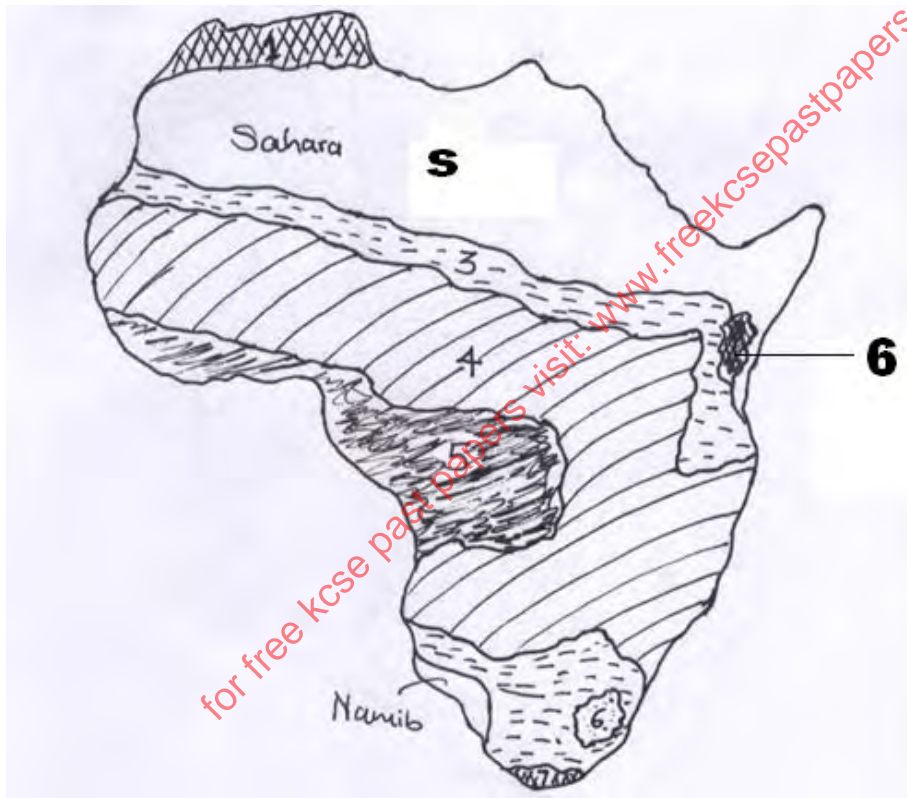
c) The diagram below shows different levels of underground water.



- i) Name the parts labelled A,B, and C. (3mks)
- ii) Explain **FOUR** ways in which under ground water influences human activities. (8mks)

9. a) i) What is volcanicity. (2mks)
 ii) **State three** characteristics of basic Lava. (3mks)
- b) i) Using diagrams, explain how a volcanic plateau is formed. (5mks)
- c) i) What is the economic significance of Batholiths to people. (4mks)
- d) Students at Kibabii high school carried out a field study on the Granitic Tors around their school.
- i) Why did they prepare a hypothesis? (2mks)
 ii) What preparation did they undertake with their geography teachers? (4mks)
 iii) State **three main** problems they encountered in the field. (3mks)

10. The map of Africa, below shows main climatic regions labelled 1,3,4 5&6.



- a) i) Name the climatic regions labelled 1 to 6. (5mks)
 ii) State the characteristics of the climatic region labelled S. (5mks)
 iii) Name the **main** factor that influences the climatic region labelled 6. (1mk)
- b) Explain how vegetation has adapted in the climatic region labelled Sahara or Namib. (6mks)
- c) i) Name **three** water Towers in Kenya. (3mks)
 ii) What measures have been taken to conserve forests in Kenya. (5mks)