

312/1
GEOGRAPHY
PAPER 1
JULY / AUGUST 2014
TIME: 2¾ HOURS

KURIA EAST SUB-COUNTY JOINT EXAMINATIONS COUNCIL 2014

Kenya Certificate of Secondary Education (K.C.S.E.)
GEOGRAPHY
PAPER 1
TIME: 2¾ HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) *This paper has **two** sections **A** and **B**.*
- (b) *Answer ALL questions in **Section A**. In **section B** answer question **6** and any other **two** questions.*
- (c) *All answers to be written on the answer booklet provided.*

SECTION A (25 MARKS)
Answer ALL Questions in this section.

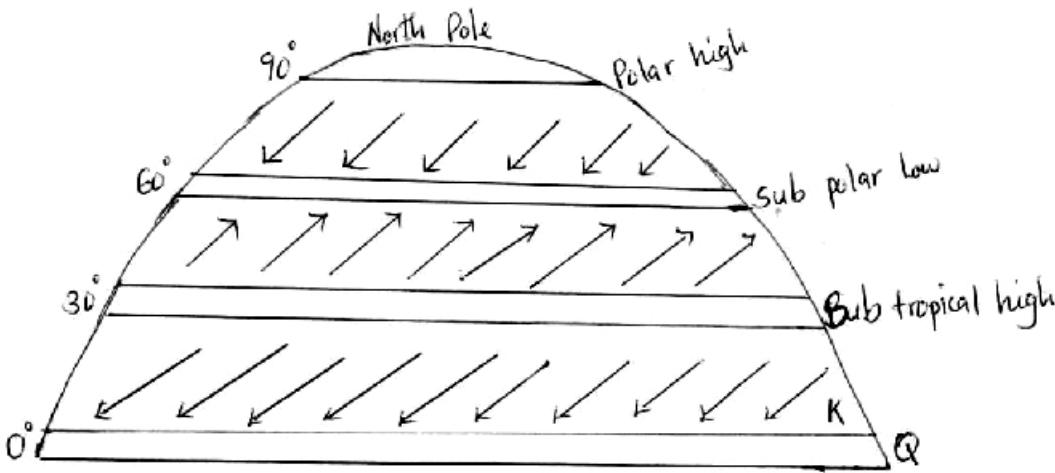
1. (a) State **two** characteristics of planets. (2mks)
 (b) Give **three** weaknesses of the passing star theory. (3mks)

2. (a) Name any **two** leaching processes that leads to soil formation. (2mks)
 (b) State any **three** methods that have been used to manage and conserve soil in Kenya. (3mks)

3. (a) List **two** features resulting from extrusive volcanic activity. (2mks)
 (b) Outline **two** effects of vertical earth movements. (2mks)

4. (a) List **two** sources of sedimentary rocks. (2mks)
 (b) Give **two** examples of mechanically formed sedimentary rocks. (2mks)

5. (a) The diagram below shows the world pressure belts of the Northern Hemisphere.



- (i) Name the pressure belt marked Q. (1mk)
- (ii) Name the planetary wind system marked K. (1mk)

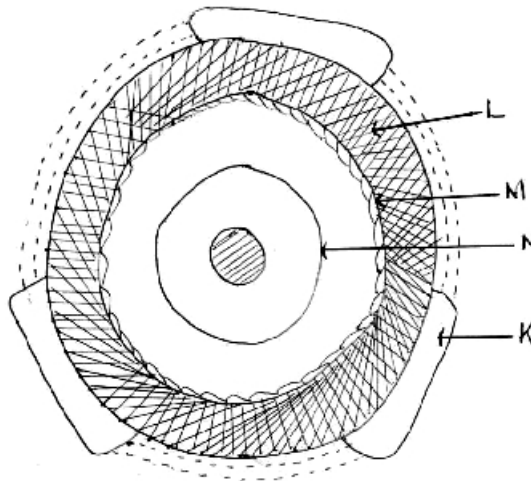
- (b) State **two** characteristics of the ITCZ. (3mks)

- (c) Apart from water vapor, name **two** other substances that are suspended in the atmosphere. (2mks)

SECTION B

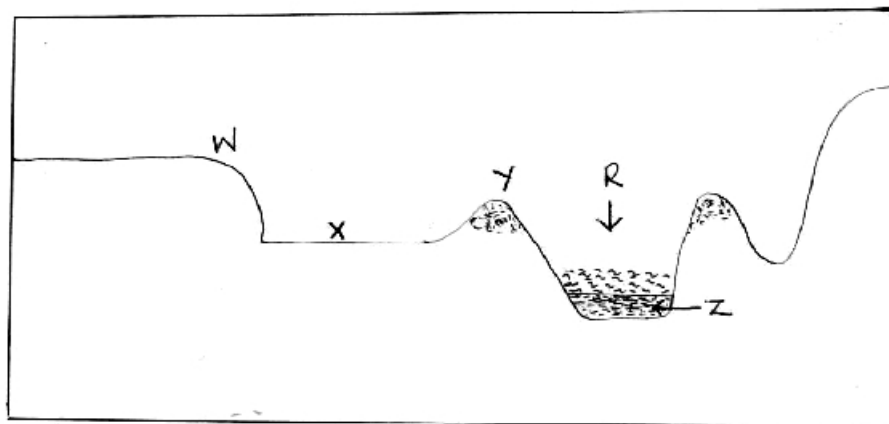
Answer question 6 and any other two questions in this section

6. (a) Study the map of Karatina 1:50000 (sheet 121/3) provided and answer the following questions:-
- (i) What is the representative fraction of the map? (1mk)
 - (ii) Convert the above scale of the map to statement scale. (2mks)
 - (iii) Identify **three** man made features found in grid square 9053. (3mks)
- (b) Citing evidence from the map, state **four** economic functions offered in the area covered by the map. (4mks)
- (c) (i) What is the bearing of Kirimara church in grid square 9255 from the trigonometrical station in grid square 9053? (1mk)
- (ii) What is the direction of the dispensary in grid square 8954 from the cattle dip in grid square 8756? (1mk)
 - (iii) What is the longitudinal extent of the area covered by the map? (1mk)
- (d) (i) Citing evidence from the map, describe the climate of the area covered by the map. (4mks)
- (ii) Describe the relief of the area covered by the map. (4mks)
- (e) Students from your class carried out a field study on Mt. Kenya forest. Design a working programme (schedule) they would use during the day of the study. (4mks)
7. (a) The diagram below shows the structure of the earth.



- (i) Label the parts marked K, L, M and N. (4mks)
 - (ii) List the characteristics of the Barysphere. (5mks)
- (b) (i) Apart from the Tectonic movement, explain **three** other causes of earthquakes (6mks)
- (ii) Describe the plate tectonic theory. (5mks)
- (c) Explain how Tsunamis occur in the oceans. (5mks)

8. (a) Name **three** types of desert landscapes. (3mks)
- (b) Explain **three** ways through which the wind carries out erosion in the desert. (6mks)
- (c) With the aid of a well labeled diagram, describe how a rock pedestal is formed. (8mks)
- (d) State **two** factors which influence transportation of material by wind in deserts. (2mks)
- (e) Explain **three** ways through which desert influence human activities. (6mks)
9. (a) (i) Name **two** major types of coasts. (2mks)
- (ii) State **two** characteristics of destructive waves. (2mks)
- (b) (i) Explain **three** causes of horizontal movement of ocean water. (6mks)
- (ii) With the aid of a diagram, explain the formation of a spit. (5mks)
- (c) Explain **two** factors that influence the marine deposition. (4mks)
- (d) Suppose you carried out a field study along the coast of Kenya.
- (i) State **two** methods you would use to record the data. (2mks)
- (ii) Name **two** types of beaches one is likely to see. (2mks)
- (iii) State **two** problems you are likely to encounter during the study. (2mks)
10. (a) (i) Define River regime. (1mk)
- (ii) Describe how river erosion takes place through abrasion. (2mks)
- (b) The diagram below represents some features formed at the old stage of a river. Use it to answer questions (i), (ii), (iii).



- (i) Identify the features marked W, X and Z. (3mks)
- (ii) Describe the formation of the feature marked Y. (3mks)
- (iii) Outline the significance of a river at the stage shown on the diagram. (5mks)
- (c) (i) Describe Trellis drainage pattern. (5mks)
- (ii) With the aid of well labeled diagrams, describe how an ox-bow lake is formed. (6mks)