

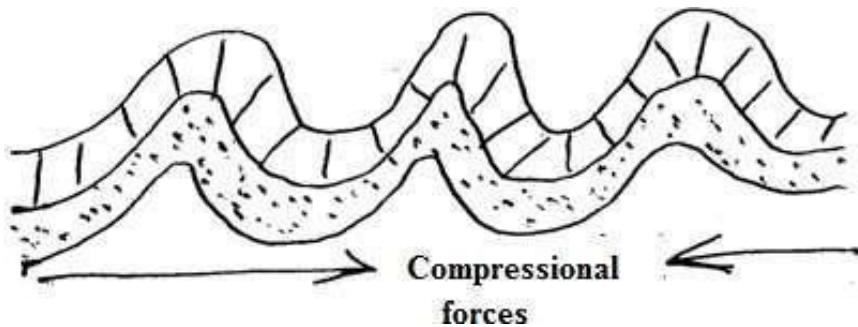
FORM FOUR CLUSTER KCSE MODEL12

GEOGRAPHY PAPER 1 QUESTIONS

SECTION A (25 Marks)

Answer all the questions

- (i) State two weaknesses of the passing star theory in explaining the origin of the earth.
 - (ii) Identify two characteristics of the sial layer of the earth's crust.
 - (i) Differentiate between local time and standard time.
 - (ii) Calculate the longitude of a place whose local time is 8.00 p.m. when the local time at Greenwich meridian is noon.
 - (iii) What does the term equinox refer to?
- Use the diagram below to answer the question which follow:



- (a) Identify the type of earth movement shown in the diagram.
 - (b) State the effect of the movement in the diagram on crustal rocks.
- (a) Name two plate tectonic boundaries.
 - (b) State three characteristics of tectonic boundaries.
 - (a) List two theories which explain the formation of Fold Mountains.
 - (b) A part from Fold Mountains, name three other features which result from folding.
 - (a) What is a 'nunatak'?
 - (b) State two processes by which ice may move.

SECTION B (75 Marks)

Answer question 6 and any other 2

- Study the map extract, Karatina (Kenya 1:50,000) provided and answer the questions which follow.
 - (a)

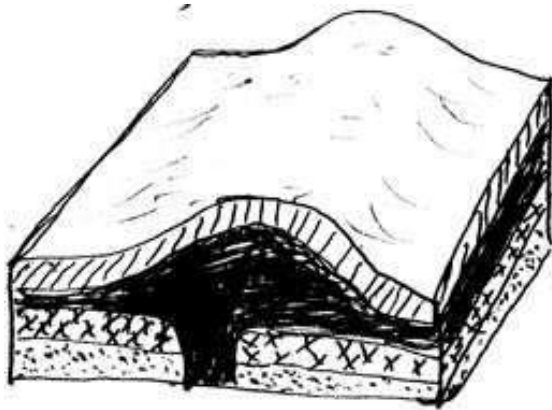
- (i) What type of map is the Karatina extract (1:50,000)?
 - (ii) Give the longitudinal and latitudinal extend of the map.
 - (iii) Identify the index to the adjoining sheet to the South–West of the Karatina sheet.
- (b)
- (i) What was the magnetic declination of the sheet as at January 1992?
 - (ii) Identify the main method used to show relief on the map.
- (c)
- (i) Citing evidence from the map extract, describe the economic activities carried out in the area.
 - (ii) Calculate the area of Mt. Kenya Forest in Kirinyaga District.
- (d) Give any four functions of Karatina Municipality, giving evidence from the map.
- (e) Give three proofs that the area covered is a highland region.
- (f) Form three students of Tumutumu Girls High School plan to carry out a field study on the types of vegetation in their school neighbourhood.

7. (a)

- (i) Distinguish between minerals and rocks.
 - (ii) List four types of igneous rocks based on their chemical composition.
- (b)
- (i) Explain why intrusive igneous rocks are coarse grained.
 - (ii) Briefly, describe the formation of organically formed sedimentary rocks.
- (c)
- (i) Identify three types of metamorphism.
 - (ii) List three methods by which the age of rocks may be determined.
- (d) Form three students of Kipsis High School plan to carry out field work on rocks in the Mt. Elgon Sub–county.
- (i) List two activities they may carry out as they prepare.
 - (ii) Why would they need to carry a hammer and polythene bag?
 - (iii) State any two problems they are likely to encounter while in the field.

8. (a)

- (i) What is a solfatar?
- (ii) List three types of volcanoes based on their life cycle.
- (b) State three ways in which a caldera may be formed.
- (c) Study the diagram below and answer the questions that follow.



- (i) Identify the feature illustrated in the diagram.
- (ii) Describe how the feature in (c i) above is formed.
- (d) Explain four negative influence of vulcanicity on the physical and human environment.
- (e) Form three students of Naro Moru High School carried out a field study on the influence of vulcanicity around their school.
- (i) List two reasons which made it necessary for them to carry out a pre-visit.
- (ii) Identify two methods they used to present their data.
- (iii) Name any two types of volcanic rocks they may have identified in their study.

9. (a)

- (i) What is river regime?
- (ii) Using a well-labeled diagram describe the long profile of a river.
- (b)
- (i) List four types of river flow.
- (ii) Describe four methods by which a river transports its load.
- (c) Using a diagram, describe the trellis pattern of drainage.
- (d) Form three students of Ndivisi Girls School intend to carry out a field study on a major river near their school.
- (i) Give one reason why they would need a work-schedule.
- (ii) State two positive influences which the river has on the people living in the area of study.

10. (a)

- (i) What is soil?
 - (ii) Name two inorganic components of soil.
- (b) Describe the following processes of soil formation.
- (i) Organic accumulation.
 - (ii) Eluviation.
- (c)
- (i) Differentiate between soil profile and soil catena.
 - (ii) Using a well-labeled diagram, show a simple soil profile of a mature soil.
- (d) (i) What is 'soil degeneration'?
- (ii) State five methods used to conserve soil in Kenya.
- (e) Students of Sichei Friends School plan to carry out a field study on soil within the school vicinity.
- (i) State any two objectives for their field study.
 - (ii) Name one tool they may carry along on their field work.