

312/1

GEOGRAPHY

Paper 1

March/April 2014

Time: 2 3/4 Hours

KAKAMEGA SUB-COUNTY JOINT EVALUATION EXAM

Kenya Certificate of Secondary Education (K.C.S.E.)

Geography

Paper 1

March/April 2014

Time: 2 3/4 Hours

INSTRUCTIONS TO CANDIDATES

- This contains two sections **A** and **B**.
- Answer all questions in section **A**, In section **B** questions **6** and two other question.
- All answers must be written on booklet provided.

This paper consists of 4 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

SECTION A: 25 MARKS

Answer all questions in this section

1. (a) What is solar system? (2mrks)
- (b) The diagram below represents a movement of the earth. Use it to answer questions that follow.
 - (i) Name the type of movement represented. (1mrks)
 - (ii) How many days does the earth take to move from position 1 to 4 in a leap year? (2mrks)
 - (iii) Give **two** effects of the movement to the earth. (2mrks)
2. (a) What is river braiding? (2mrks)
- (b) Give **two** conditions that lead to the formation of a waterfall. (2mrks)
3. (a) Describe the continental drift theory. (2mrks)
- (b) Give **two** evidence that support the continental drift theory . (2mrks)
4. (a) What is ocean salinity? (2mrks)
- (b) Give **three** ways in which island are formed in the ocean. (3mrks)
5. (a) Draw a well labeled diagram of a simple fold. On it mark and name
 - trough
 - crest
 - axis
 - compressional forces
6. (a) (i) Identify the highest point of karatina area. (2mrks)
- (ii) Give the magnetic variation as January 1992. (2mrks)
- (b) Describe the drainage of the area South of easting 50 and northing 00. (6mrks)
- (c) Calculate the distance of all weather road loose surface E605 from grid 930473 to the T-junction at Chehe grid 970541. Give your answer in km and m.

- (d) Draw a cross section from grid 980460 at grid square 04470 at kariko. On it locate the following features. (4mrks)
- (i) a spur (1mrk)
- (ii) all bound surface road (1mrk)
- (iii) River valley (1mrk)
- (e) Explain any **three** economic activities taking place in karatina area. (3mrks)
7. (a) (i) What is a desert? (2mrks)
- (ii) State **four** physical factors that contributed to desert formation. (4mrks)
- (b) Describe the following desert surfaces
- sandy desert (2mrks)
- rocky desert (2mrks)
- (c) State **three** factors that influence wind erosion in the desert surfaces (3mrks)
- (d) Explain how the following factors influence wind transportation in the deserts
- (i) strength and speed of wind. (2mrks)
- (ii) nature or weight of the load. (2mrks)
- (e) Using a well labeled diagram, explain the formation of yardangs. (8mrks)
8. (a) (i) What is vulcanicity? (2mrks)
- (ii) Give **two** causes of vulcanicity. (2mrks)
- (b) The diagram below shows intriusive features. Use it to answer the questions that follows
- (i) Name the parts that marked **T,S,** and **R.** (3mrks)
- (ii) Differentiate between a sill and a dyke. (2mrks)
- (c) (i) Describe the **three** cycle of a volcano (6mrks)
- (ii) Give **four** characteristics of a basic lava dome. (4mrks)
- (d) Explain the formation of a caldera violent volcanic explosion. (6mrks)

9. (a) Differentiate between infiltration and percolation of water. (2mrks)
- (b) Explain how the following factors influence the existence of iunderground water.
- (i) Amount of rainfall (2mrks)
- (ii) Gradient of the slope (2mrks)
- (c) The diagram below shows zones of underground water

- (i) Name the zones marked **A,B** and **C**,
- (ii) Explain **three** conditions that lead to the formation of an Artensian Basin and Well.
- (d) (i) What is a karst scenery. (2mrks)
- (ii) State **three** factors that lead to the formation of karst features. (3mrks)
- (e) Describe the formation of a karst pillar. (5mrks)

10. (a) (i) What is glaciations? (2mrks)
- (ii) Give **three** ways in which ice moves. (2mrks)
- (b) Differentiate between valley glacier and an ice sheet. (2mrks)
- (c) Explain how the following movements of valley glacier is influenced by the following factors;-
- (i) temperature changes. (2mrks)
- (ii) width of the channel (2mrks)
- (iii)Gradient of the slope (2mrks)
- (d) Explain **three** significance of upload glaciated features to human activities (6mrks)
- (e) Suppose students in a school in Nyeri carried out a field study on a glaciations on mount Kenya,
- (i) Give **three** types of moraine they are likely to study. (3mrks)
- (ii) Give **three** reasons why they would need a route map. (3mrks)

ANSWERS:

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