312 /1
GEOGRAPHY
PAPER ONE
FORM 4 pa
MARCIN / APRIL 2013
TIME: 23/4 HOURS

PENTAGON JOINT EXAMINATION - 2013

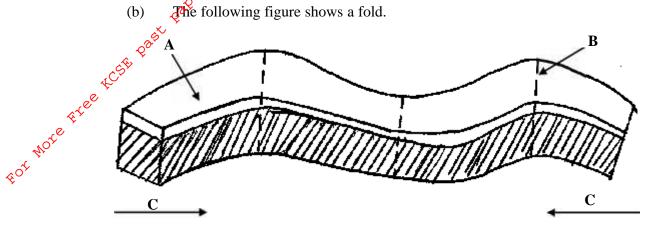
WARENG DISTRICT

Kenya Certificate of Secondary Education (KCSE) FORM FOUR

INSTRUCTIONS TO CANDIDATES

- * This paper consists of 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 in the answer sheets provided.

- Name **two** planets without sate in the solar system. 1.
- Answer ALL the questions in this sections (a) Name two planets without (b) (b) State **three** effects of the earth's movement around the sun. (3Marks)
- State **two** importance of weather forecasting to man. 2. (a) (2Marks)
 - List any two forms of atmospheric precipitation. (b) i) (2Marks)
 - ii) Give the use of Barometer. (1Mark)
- Name two main types of earth movements. 3. (a) (2Marks)
 - (b) The following figure shows a fold.

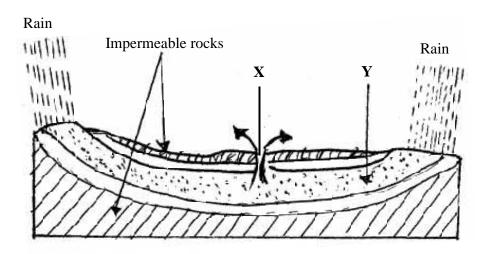


Name the parts marked A, B and C.

(3Marks)

(2Marks)

- 4. (a) State **three** reasons why some Rift Valley lakes are saline. (3Marks)
 - (b) Give **two** examples of crater lakes in Kenya. (2Marks)
- 5. (a) State **three** factors that affect the occurrence of underground water. (3Marks)
 - (b) The following diagram shows underground water.



Name the parts marked X and Y.

(2Marks)

| | SECT | ΓΙΟΝ B | s com | | | | | |
|------|--|--|---|----------|--|--|--|--|
| | Answer question 6 and any other two grestions from this section. | | | | | | | |
| 6. | Study the map of Kitale 1:50,000 (Sheet 75/3) provided and answer the following questions. | | | | | | | |
| | (a) | i) | What type of map is Kitale map extract? | (1Mark) | | | | |
| | | ii) | Give the longitudinal extent of the area covered by the map. | (2Marks) | | | | |
| | | iii) | Give two methods used to represent relief on the map. | (2Marks) | | | | |
| | | iv) | Name three drainage features on the map. | (3Marks) | | | | |
| | (b) | i) | What is the length in kilometres of the all – weather road (loose surface) | | | | | |
| | | ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠ | from Mc call's bridge to Knights corner. | (2Marks) | | | | |
| | | in de | Assuming one hut has ten people living in it, estimate the number of | , | | | | |
| | Š | C & C | people living on grid square 2331. | (2Marks) | | | | |
| | (c) | iii) | Apart from administration, give four other services that are provided at | , | | | | |
| ব্ | Cox | • | Kitale township. | (4Marks) | | | | |
| , ee | (c) | i) | Using a scale of 1cm to represent 40metres, draw a cross section from | | | | | |
| &x | | | grid reference 410180 to grid reference 500180. | (4Marks) | | | | |
| | | ii) | On the cross section, mark and name the following: | | | | | |
| | | | - A dry weather road. | (1Mark) | | | | |
| | | | - River Kiptarit. | (1Mark) | | | | |
| | | | - A ridge | (1Mark) | | | | |
| | | iii) | Calculate the vertical exaggeration (VE) of the section. | (2Marks) | | | | |
| 7. | (a) | i) | Differentiate between minerals and rocks. | (2Marks) | | | | |
| | | ii) | List down three classification of sedimentary rocks. | (3Marks) | | | | |
| | (b) | i) | Name three methods that are used to estimate the age of rocks. | (3Marks) | | | | |
| | | ii) | State three characteristics of intrusive igneous rocks. | (3Marks) | | | | |
| | (c) | Suppo | ose you are asked to carry out a field study on rocks along Kerio Valley. | | | | | |
| | | i) | Explain how you would use the following equipment and materials to | | | | | |
| | | | carry out the fieldwork. | | | | | |
| | | | - Geological hammer | | | | | |
| | | | - Dilute hydrochloric acid | | | | | |
| | | | - Lens and binoculars | | | | | |
| | | | - Paper bags | (4Marks) | | | | |
| | | ii) | Name four physical characteristics of rocks that you will be able to | | | | | |
| | | | identify. | (4Marks) | | | | |
| | | iii) | State three disadvantages of rocks that you might be able to identify. | (3Marks) | | | | |
| | | iv) | State methods in which you would use to present your findings. | (3Marks) | | | | |
| 8. | (a) | i) | Define the term vulcanicity. | (2Marks) | | | | |
| | | ii) | Name two main types of vulcanicity. | (2Marks) | | | | |

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|----------------------|-----------------|----------|---|----------|
| | (b) | i) | Name three life cycle stages of volcanoes. | (3Marks) |
| | | ii) | Explain two ways in which a caldera may be formed. | (4Marks) |
| | | iii) | State two factors that determine the existence of a caldera lake. | (2Marks) |
| | (c) | i) | With the aid of well labelled diagrams, explain the formation of a dyke as | |
| | | | an intrusive volcanic land form. | (6Marks) |
| | | ii) | Explain three advantages of volcanic mountains. | (6Marks) |
| | | | , o ^{jX} | |
| 9. | (a) | i) | Name any three agents that are responsible for weathering process. | (3Marks) |
| | | ii) 🞺 | Briefly explain the main differences between chemical weathering and | |
| | | ii) ers | physical weathering. | (4Marks) |
| ş ^z ee zc | ag ^X | y | | |
| , | (b) | i) | Explain how the following factors influence weathering. | |
| 4c | Ó. | | - Nature of rock. | (2Marks) |
| ~ ee | | | - Climate | (2Marks) |
| & , | | ii) | Briefly explain how block disintegration as a process of weathering | |
| | | | take place. | (4Marks) |
| | (c) | i) | Apart from man, state any four ways in which other animals contribute | |
| | | | to weathering. | (4Marks) |
| | | ii) | Explain three significances of weathering to physical and human | |
| | | | environment. | (6Marks) |
| 10. | (a) | i) | What is meant by the term arid areas. | (2Marks) |
| | | ii) | Name two main agents of erosion in arid areas. | (2Marks) |
| | | iii) | State three ways in which wind transports its load. | (3Marks) |
| | (b) | i) | State three factors influencing the rate of wind transportation. | (3Marks) |
| | | ii) | With the aid of well labelled diagrams, describe how a yardang is formed. | (5Marks) |
| | (c) | Studen | ats from Kapkoiga Girls went to study desert landforms in Marsabit county. | |
| | | i) | Name any three features formed as a result of action of water they might | |
| | | | have identified. | (3Marks) |
| | | ii) | State any three ways in which they prepared of the study. | (3Marks) |
| | | iii) | State any four problems they might have encountered during the study. | (4Marks) |
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