

# **FORM FOUR TERM ONE EXAM 2017**

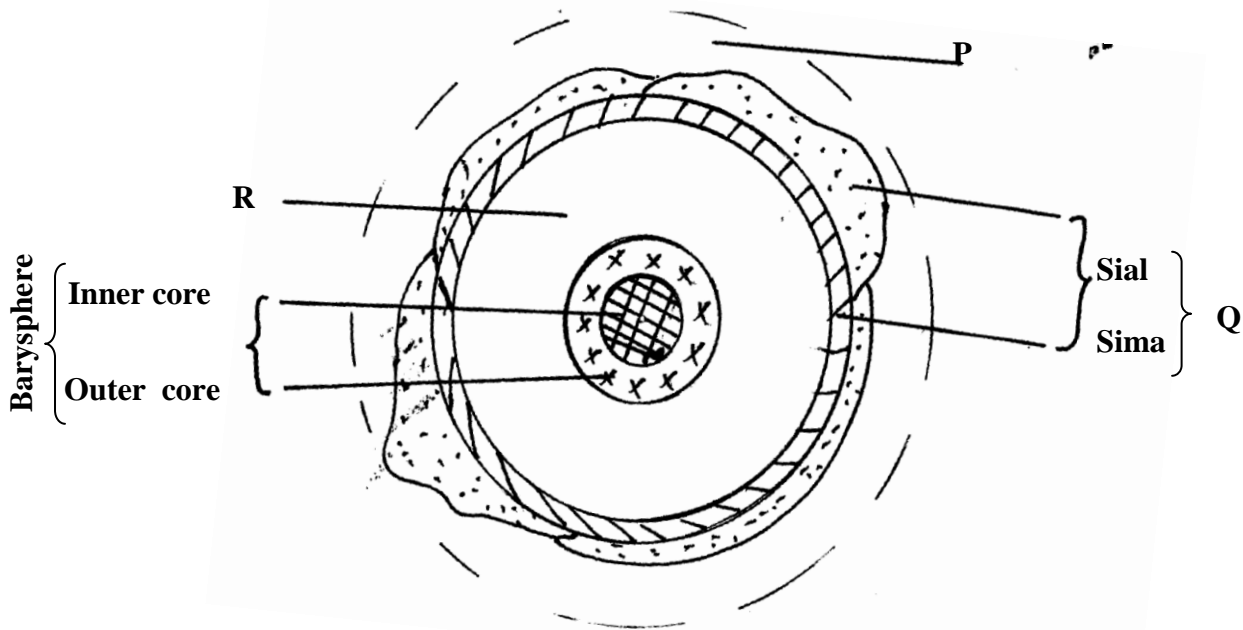
**GEOGRAPHY**  
Paper 1  
Time: 2  $\frac{3}{4}$  Hours

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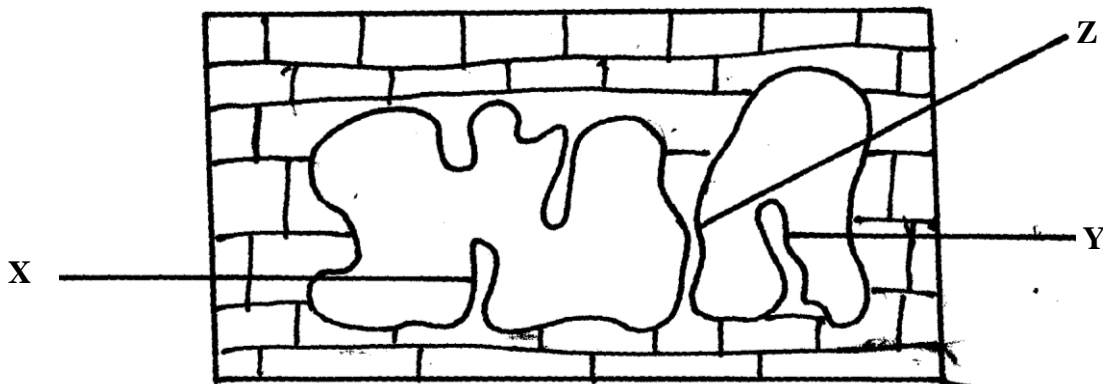
This paper consists of 4 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

**SECTION A**  
**Answer all questions in this section**

1. The diagram below shows the structure of the earth.



- (a) Name the parts labelled **P, Q** and **R**. (3mrks)  
 (b) Name the minerals that make up Sima. (2mrks)
2. (a) Draw a well labelled diagram of the hydrological cycle. (5mrks)  
 (b) State **two** ways in which underground water may reach the surface of the earth. (2mrks)
3. The diagram below shows some features found in the karst Scenery.

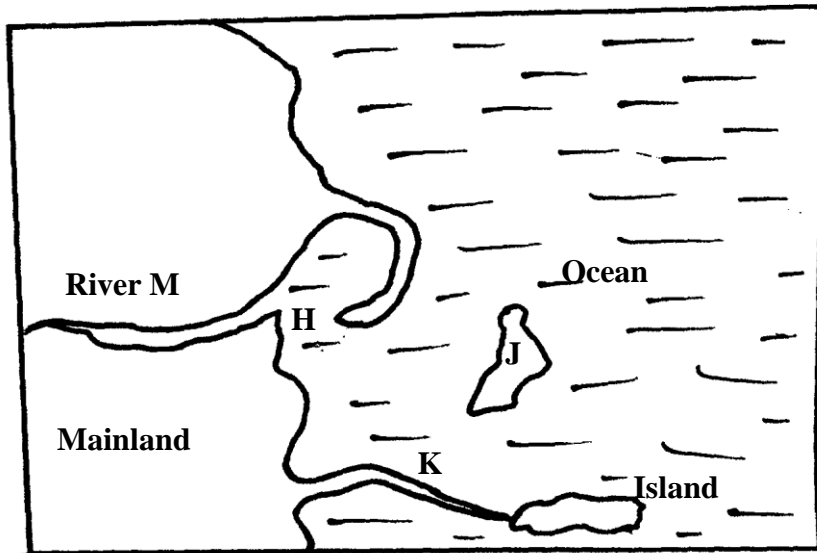


- (a) Name the features marked **X, Y** and **Z**. (3mrks)
4. (a) State **three** causes of earthquakes. (3mrks)  
 (b) Give **two** effects of earthquakes in built up areas. (2mrks)
5. (a) Name **three** external land forming processes that lead to the formation of lakes. (3mrks)  
 (b) State **two** ways in which lakes influence natural environment. (2mrks)

**SECTION B(75marks)**

**Answer question 6 and any other two questions from this section.**

6. (a) (i) Convert the Ratio Scale of the map into statement scale. (1mrk)  
(ii) Give the longitudinal and latitudinal extent of the area covered by the map. (2mrks)  
(iii) Give the magnetic variation of the area covered by the map. (1mrk)
- (b) (i) Calculate the area of mount Kenya forest to the east of the district boundary. Give your answer in km<sup>2</sup> (2mrks)  
(ii) Citing evidence from the map state **three** economic activities of area covered by the map. (3mrks)
- (c) (i) Using a scale of 1cm to represent 50m, draw a cross-section from grid reference 800505 to 860505. On it mark and name  
(i) River Sagana  
(ii) All weather road loose surface.  
(ii) Calculate the vertical exaggeration of your cross-section. (2mrks)
- (d) (i) Describe the drainage of the area covered by the map. (5mrks)  
(ii) Citing evidence from the map state **three** factors that influence distribution of settlement on the map. (3mrks)
7. (a) Give **three** examples of chemically formed sedimentary rocks. (3mrks)  
(b) (i) State **three** conditions necessary for growth of corals. (3mrks)  
(ii) Describe how coral rocks are formed. (4mrks)  
(c) Explain **four** ways in which rocks contribute to the economy of Kenya. (8mrks)  
(d) Some students are planning to carry out a field study on rock weathering around their school.  
(i) List **three** secondary sources of information they are likely to use as they prepare for their study  
(ii) Apart from using secondary sources , State **four** ways in which they will prepare themselves for the study. (4mrks).
8. (a) State **three** characteristic of the inter tropical convergence zone. (3mrks)  
(b) With the aid of a well labelled diagram; describe how relief rainfall is formed. (6mrks)  
(c) State **five** characteristics of the hot desert climate. (5mrks)  
(d) You intended to carry out a field study to determine the relationship between climate and vegetation in your district.  
(i) Give **three** reasons why you will need the map of the district.. (3mrks)  
(ii) Name **two** sampling techniques you are likely to use for this study. (2mrks)  
(iii) Give **two** reasons why sampling would be appropriate for this field study. (2mrks)  
(iv) State **four** methods you would use to record data during the field study. (4mrks)
9. (a) (i) Apart from the Rift Valley name **two** other relief features that were formed as a result of faulting. (2mrks)  
(ii) With aid of well labeled diagram, describe how a Rift Valley is formed by tensional forces. (8mrks)  
(b) Explain **four** effects of faulting on drainage. (8mrks)  
(c) Student from Nambomboto sec school are planning to carry out a field study of an area affected by faulting.  
(i) State **four** reasons why it is important for students to have a pre-visit of the area.  
(ii) One of the ways they would use to collect data is through direct observation in the study of such an area. (3mrks)  
(iii) Give three disadvantages of direct observation in the study of such an area. (3mrks)
10. Use the diagram below to answer question (a)



- (a) Name the coastal features marked **H, J, K, L** and **M**. (5mrks)
- (b) (i) State **four** conditions necessary for the formation of a beach. (4mrks)  
 (ii) Describe the processes involved in marine erosion. (6mrks)
- (c) Explain how the following factors influence wave deposition  
 (i) Gradient of the shore. (4mrks)  
 (ii) depth of the sea. (4mrks)
- (e) You are planning to carry out a field study on the deposition features along the coast of Kenya.  
 (i) State **two** objectives you would formulate for your study. (2mrks)