

29.9 GEOGRAPHY (312)

29.9.1 Geography Paper 1 (312/1)

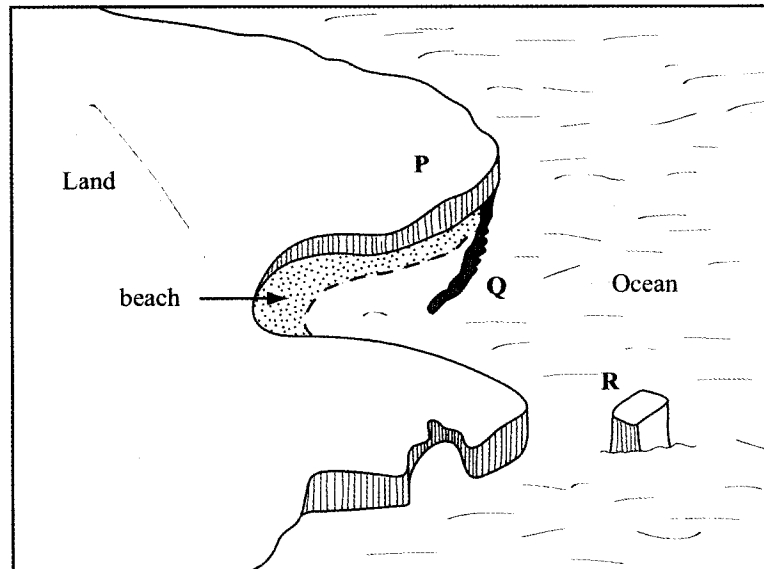


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SECTION A

Answer **ALL** the questions in this section.

- 1 Give **three** components of the solar system. (3 marks)
- 2 (a) Identify **two** types of high level clouds. (2 marks)
(b) Draw a well labelled diagram of a hydrological cycle. (5 marks)
- 3 (a) Give **three** causes of earthquakes. (3 marks)
(b) Name **two** major earthquake zones of the world. (2 marks)
- 4 (a) What is a rock? (2 marks)
(b) Give **three** characteristics of sedimentary rocks. (3 marks)
- 5 (a) The diagram below shows some coastal features.

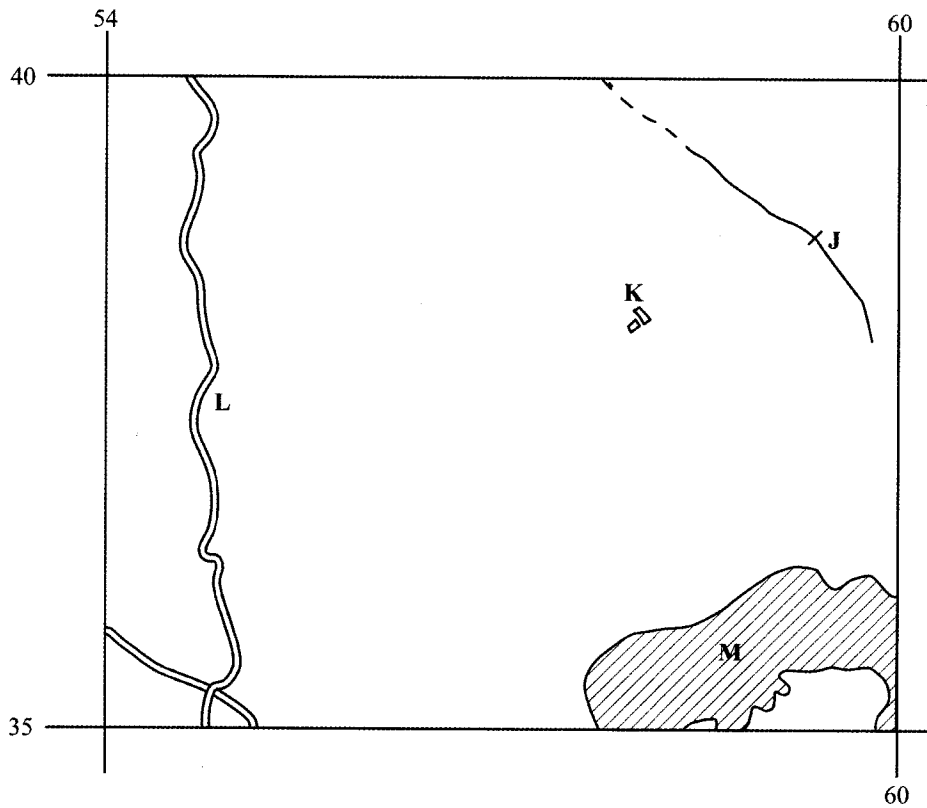


- Name the features marked **P**, **Q** and **R**. (3 marks)
- (b) State **two** conditions necessary for the formation of a beach. (2 marks)

SECTION B

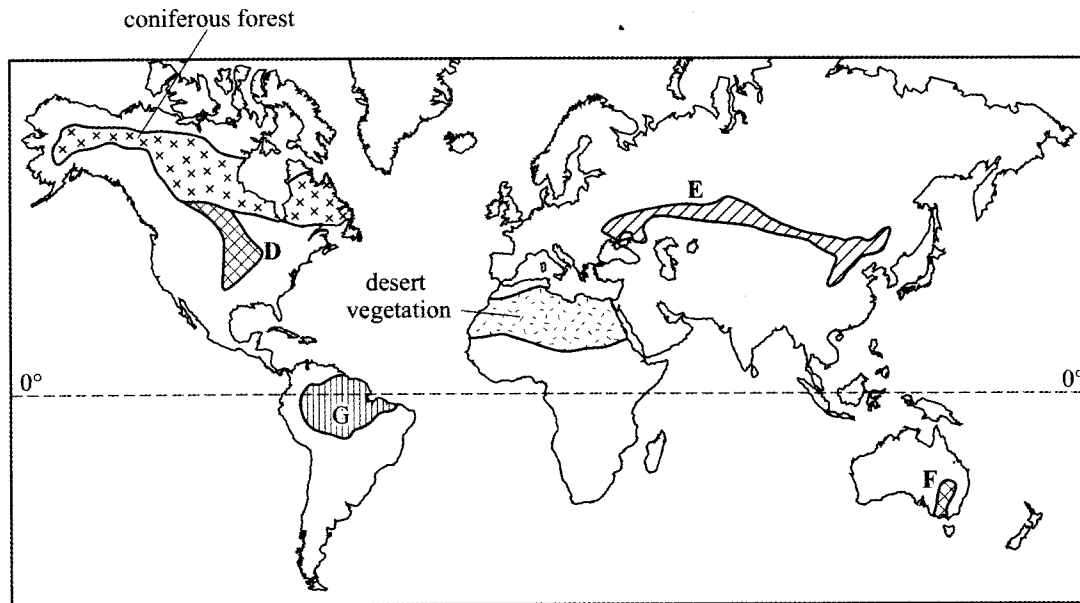
Answer question 6 and any other **TWO** questions from this section.

- 6 Study the map of Homa Bay (1:50,000) sheet 129/2 provided and answer the following questions.
 - (a) A pipeline is to be laid from Lake Victoria along the line marked X–Y.
 - (i) What is the length of the piping to be used? (Give your answer to the nearest 100 metres). (2 marks)
 - (ii) Calculate the bearing of point Y from point X. (2 marks)
 - (iii) Calculate the area of the part of Lake Victoria shown on the map excluding the marshy sections. (Give your answer in square kilometres). (2 marks)
 - (b) The rectangle below represents the area in the map extract bounded by Eastings 54 and 60 and Northings 35 and 40. Identify and name the features marked J, K, L and M. (4 marks)

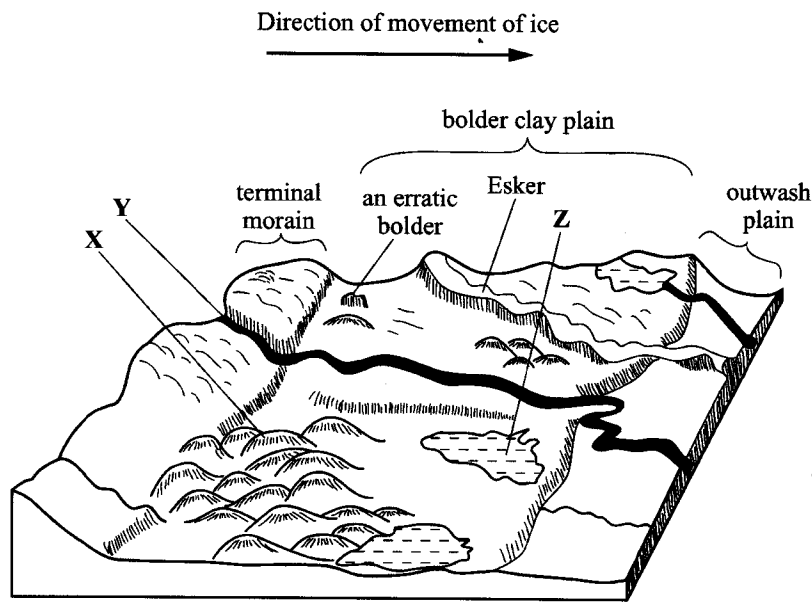


- (c) (i) Explain **three** factors which have influenced the distribution of settlements in the area covered by the map. (6 marks)
- (ii) Citing evidence from the map, give **two** agricultural activities carried out in the area covered by the map. (4 marks)
- (d) Describe the drainage of the area covered by the map. (5 marks)

7 The map below shows some vegetation regions of the world. Use it to answer questions (a) and (b).

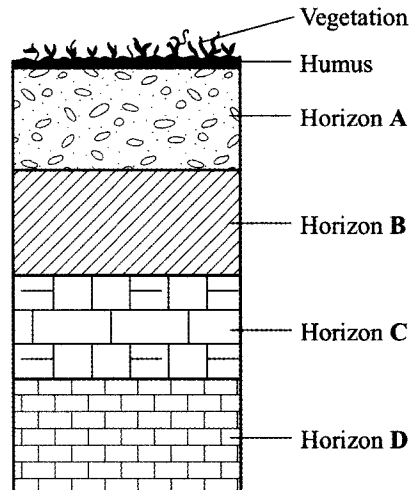


- (a) (i) Name the temperate grasslands marked **D**, **E** and **F**. (3 marks)
(ii) Describe the characteristics of the natural vegetation found in the shaded area marked **G**. (6 marks)
- (b) Explain how climate has influenced the existence of the following types of vegetation shown on the map.
(i) Desert vegetation; (4 marks)
(ii) Coniferous forest. (4 marks)
- (c) You are required to carry out a field study of the natural vegetation within your local environment.
(i) Apart from identifying the different types of plants, state **three** other activities you would carry out during the field study. (3 marks)
(ii) How would you identify the different types of plants? (3 marks)
(iii) State **two** ways in which the information collected during the field study would be useful to the local community. (2 marks)
- 8 (a) Describe plucking as a process in glacial erosion. (4 marks)
(b) Explain **three** conditions that lead to glacial deposition. (6 marks)
(c) The diagram below shows features resulting from glacial deposition on a lowland area.



- (i) Name the features marked X, Y and Z. (3 marks)
- (ii) Describe how terminal moraine is formed. (4 marks)
- (d) Explain **four** positive effects of glaciation in lowland areas. (8 marks)
- 9 (a) Differentiate between river rejuvenation and river capture. (2 marks)
- (b) Give **three** features resulting from:
- (i) river rejuvenation; (3 marks)
- (ii) river capture. (3 marks)
- (c) Explain the **four** ways through which a river transports its load. (8 marks)
- (d) You are planning to carry out a field study on the lower course of a river.
- (i) Give **three** reasons why you would require a route map. (3 marks)
- (ii) State **three** characteristics of a river at the old stage that you are likely to observe during the field study. (3 marks)
- (iii) Give **three** follow-up activities you would be involved in after the field study. (3 marks)

10 The diagram below represents a well developed soil profile. Use it to answer question (a).



- (a) (i) Describe the characteristics of horizon **B**. (3 marks)
- (ii) Apart from humus, name **three** other components of soil. (3 marks)
- (iii) State **three** ways in which humus contributes to the quality of soil. (3 marks)
- (b) (i) Differentiate between soil structure and soil texture. (2 marks)
- (ii) Explain how the following factors influence the formation of soil:
- topography; (6 marks)
 - time. (2 marks)
- (c) Explain how the following farming practices may lead to loss of soil fertility:
- (i) overgrazing; (2 marks)
 - (ii) frequent ploughing; (2 marks)
 - (iii) continuous irrigation. (2 marks)

29.9.2 Geography Paper 2 (312/2)

SECTION A

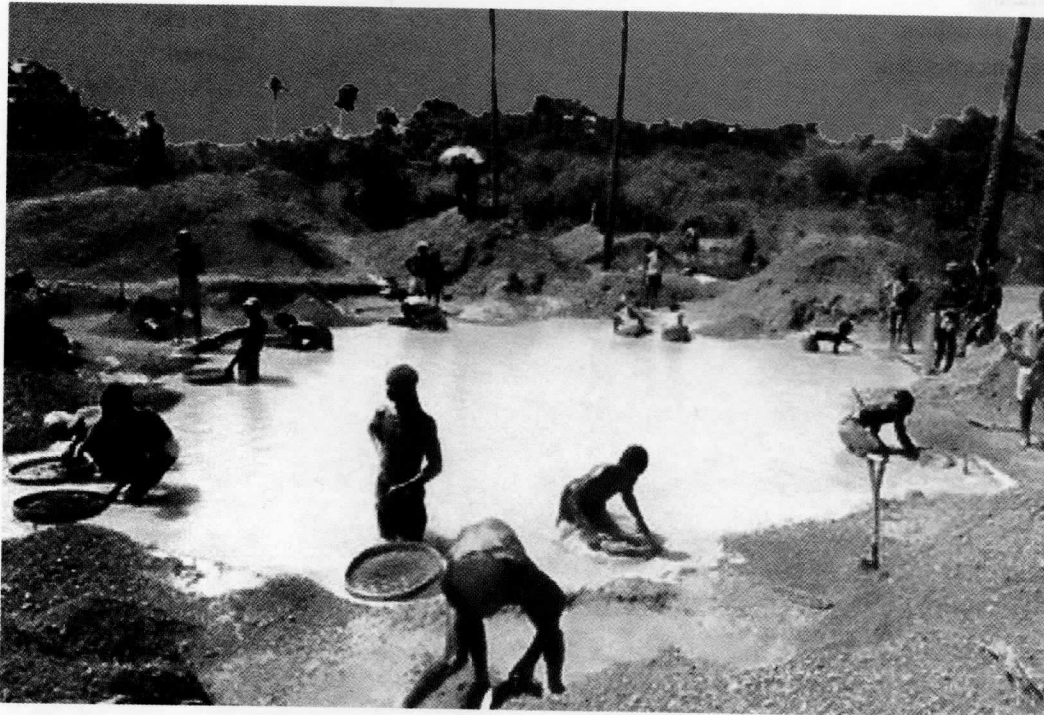
Answer **all** the questions in this section.

1. Give **three** reasons why it is important to study Geography. (3 marks)
2. (a) What is mixed farming? (2 marks)
(b) State **four** physical conditions that favour cocoa growing in Ghana. (4 marks)
3. (a) Name **two** forest reserves found in the coastal region of Kenya. (2 marks)
(b) State **three** ways in which the clearing of forests has affected the natural environment in Kenya. (3 marks)
4. (a) Why is Kenya's petroleum refinery located at Mombasa? (2 marks)
(b) State **four** characteristics of the cottage industry in India. (4 marks)
5. (a) Name **two** proposed major highways in Africa. (2 marks)
(b) Give **three** reasons why it is **not** possible to transport goods by road directly between Mombasa and Lagos. (3 marks)

SECTION B

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

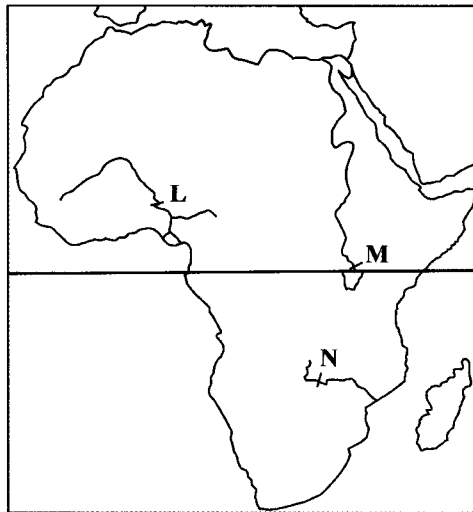
6. Study the photograph below and answer questions (a) and (b).



(a) Name:

- (i) the mining method shown in the photograph; (1 mark)
- (ii) **two** minerals that may be mined using the method shown in the photograph. (2 marks)

- (b) (i) Using evidence from the photograph, give **four** indicators that show that the weather was hot when the photograph was taken. (4 marks)
- (ii) Describe how minerals are obtained using the mining method shown in the photograph. (5 marks)
- (iii) Citing evidence from the photograph, explain **two** ways in which the mining method shown has affected the environment. (4 marks)
- (iv) Apart from the method shown in the photograph, name **three** other mining methods. (3 marks)
- (c) Explain how the following factors influence the occurrence of minerals:
- (i) evaporation; (2 marks)
- (ii) vulcanicity; (2 marks)
- (iii) metamorphism. (2 marks)
7. (a) (i) Apart from draining swamps, give **two** other methods through which land has been reclaimed in Kenya. (2 marks)
- (ii) Give **two** methods that are used to drain swamps in Kenya. (2 marks)
- (b) (i) Name **two** rivers that supply water to the Mwea Tebere Irrigation Scheme. (2 marks)
- (ii) Explain how the following factors influenced the establishment of the Mwea Tebere Irrigation Scheme:
- topography; (2 marks)
 - soils; (2 marks)
 - population density; (2 marks)
 - government policy. (2 marks)
- (c) (i) Name **three** areas which make up the Zuider Zee reclamation project in the Netherlands. (3 marks)
- (ii) Give **four** differences between land reclamation in Kenya and the Netherlands. (8 marks)
8. (a) (i) Apart from uranium, give **two** other non-renewable sources of energy. (2 marks)
- (ii) State **two** advantages of using uranium as a source of energy. (2 marks)
- (b) (i) What is energy crisis? (2 marks)
- (ii) Explain **three** ways in which energy crisis affects the economy of Kenya. (6 marks)
- (c) Use the map of Africa below to answer question (c) (i).



- (i) Name the dams marked **L, M, and N**. (3 marks)
- (ii) State **four** ways in which Kenya has benefited from the development of geothermal power. (4 marks)
- (d) Explain **three** physical factors that influence the establishment of hydro-electric power dams. (6 marks)
9. (a) (i) Distinguish between a game sanctuary and a national park. (2 marks)
- (ii) Draw a map of Kenya and on it mark and name Sibiloi National Park, Maasai Mara National Reserve and Tsavo National Park. (4 marks)
- (b) (i) Give **three** factors that favour the establishment of national parks in the semi-arid areas of East Africa. (3 marks)
- (ii) Explain **two** effects of drought on wildlife in Kenya. (4 marks)
- (c) Explain **four** measures that the government of Kenya has taken to conserve wildlife other than establishing national parks and reserves. (8 marks)
- (d) State **four** ways in which wild animals are of significance to the economy of Kenya. (4 marks)
10. (a) (i) Differentiate between internal and regional trade. (2 marks)
- (ii) List **three** major exports from Kenya to the European Union (EU). (3 marks)
- (b) Give **four** reasons why the Southern African Development Cooperation (SADC) was formed. (4 marks)
- (c) Explain **four** problems facing trade in Kenya. (8 marks)
- (d) Explain how the future of international trade in Kenya can be improved. (8 marks)