

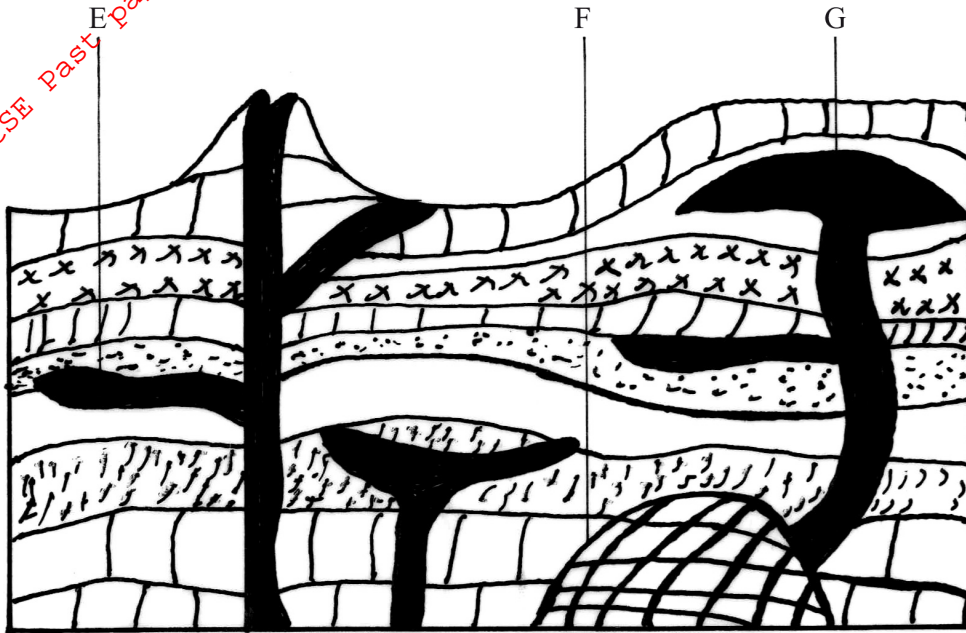
3.9 GEOGRAPHY (312)

3.9.1 Geography Paper 1 (312/1)

SECTION A

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

- 1 Name **two** types of hypabyssal rocks. (2 marks)
- 2 (a) The diagram below shows intrusive volcanic features.



- Name the features marked E, F and G. (3 marks)
- (b) Name **two** active volcanoes in Kenya. (2 marks)
- 3 (a) Give **three** processes in the hydrological cycle. (3 marks)
- (b) State **four** factors that facilitate **deposition** in rivers. (4 marks)
- 4 (a) Explain **two** reasons why wind is the dominant agent of erosion in arid areas. (4 marks)
- (b) Identify **two** features formed as a result of wind deposition in arid areas. (2 marks)
- 5 (a) Describe podzolization as a process of leaching. (2 marks)
- (b) State **three** ways in which mulching helps in soil conservation. (3 marks)

SECTION B

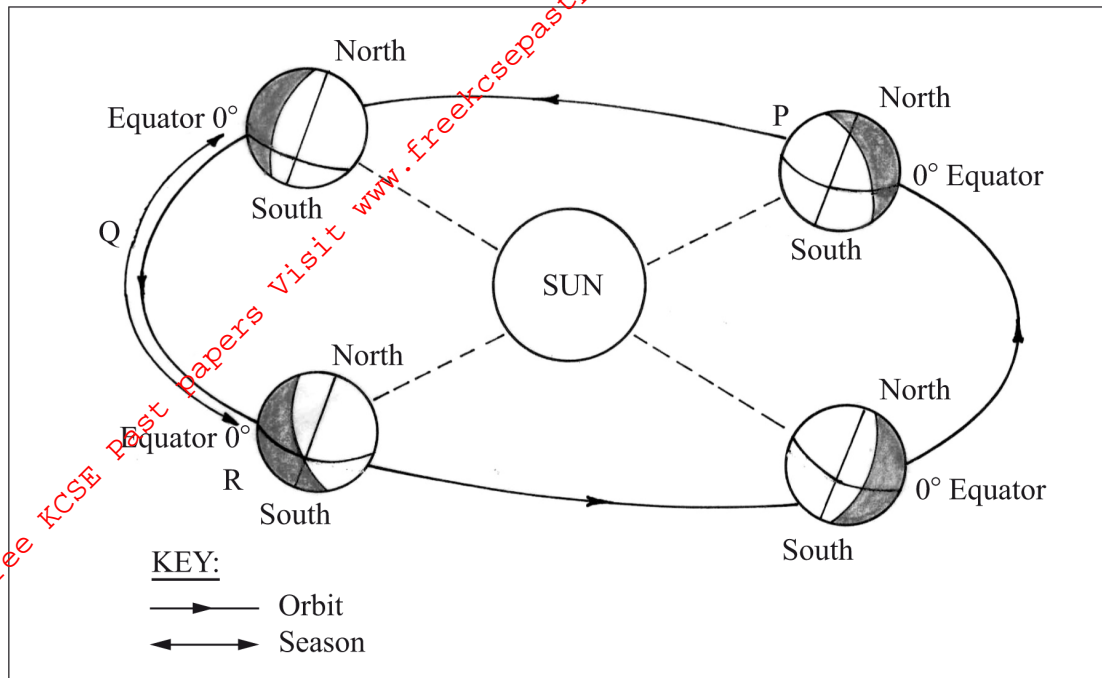
Answer **question 6** and any other **TWO** questions from this section.

6 Study the map of Migwani 1:50,000 (Sheet 151/1) provided and answer the following questions.

- (a) (i) Give the longitudinal extent of the area covered by the map. (2 marks)
- (ii) What is the magnetic variation of the map? (1 mark)
- (iii) Give the six-figure grid reference for the junction of the roads D503 and D507. (2 marks)
- (b) (i) Using a vertical scale of 1 cm to represent 100 metres, draw a cross section along the line marked J-K. (4 marks)
- (ii) On it, mark and label the following:
- footpath; (1 mark)
 - road; (1 mark)
 - water pipeline; (1 mark)
 - steep slope. (1 mark)
- (iii) Calculate the vertical exaggeration of the cross-section. (2 marks)
- (c) Citing evidence from the map, give **three** economic activities carried out in the area covered by the map. (6 marks)
- (d) Explain how relief has influenced the distribution of settlement in the area covered by the map. (4 marks)

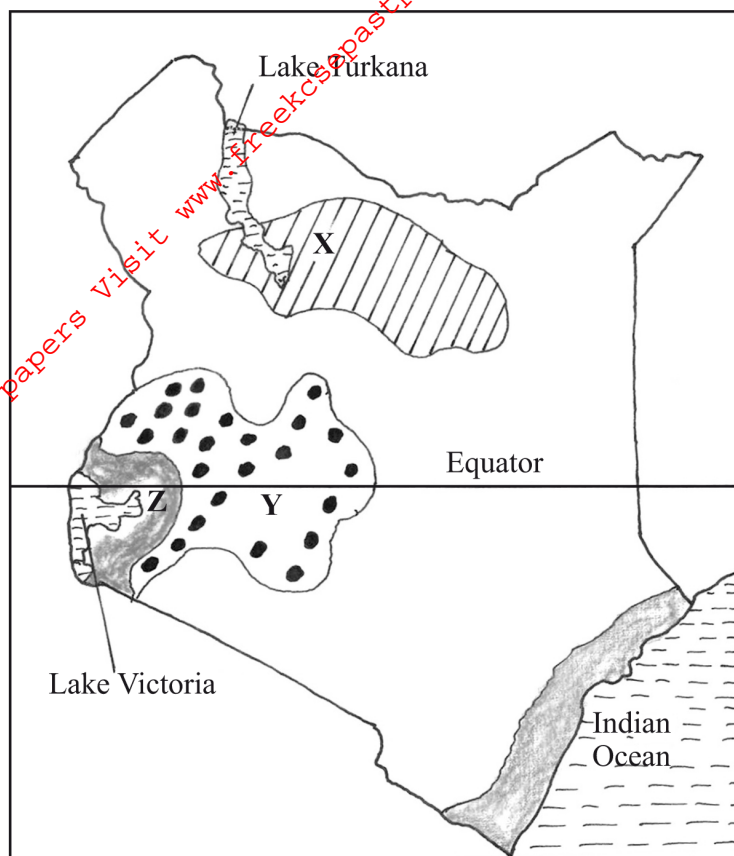
- 7 (a) (i) Describe the solar system. (2 marks)
- (ii) The local time at Manaus 60° W is 11.30 a.m. What is the time in Nairobi 37° E? (3 marks)
- (b) (i) State **five** characteristics of the mantle in the interior structure of the earth. (5 marks)
- (ii) Outline the evidence which support the theory of continental drift. (4 marks)

- (c) The diagram below represents the revolution of the earth.



- (i) Name the solstice marked P. (1 mark)
- (ii) Identify the season represented in the region marked Q. (1 mark)
- (iii) Describe the climatic conditions in Europe when the Earth is in position R. (3 marks)
- (d) With the aid of a well labelled diagram, describe the occurrence of the solar eclipse. (6 marks)

- 8 The map below shows some climatic regions of Kenya. Use it to answer question (a).



- (a) (i) Name the climatic regions marked X and Y. (2 marks)
- (ii) State **three** characteristics of the climatic region marked Z. (3 marks)
- (b) Explain how each of the following factors influence climate:
- (i) Altitude; (4 marks)
- (ii) Ocean currents. (4 marks)
- (c) What are the negative effects of climate change on physical environment? (6 marks)
- (d) Students visited a weather station to study recording of weather elements.
- (i) State **three** qualities in the construction of a Stevenson screen they would have observed during the study. (3 marks)
- (ii) Identify **three** types of data they are likely to have collected during the study. (3 marks)

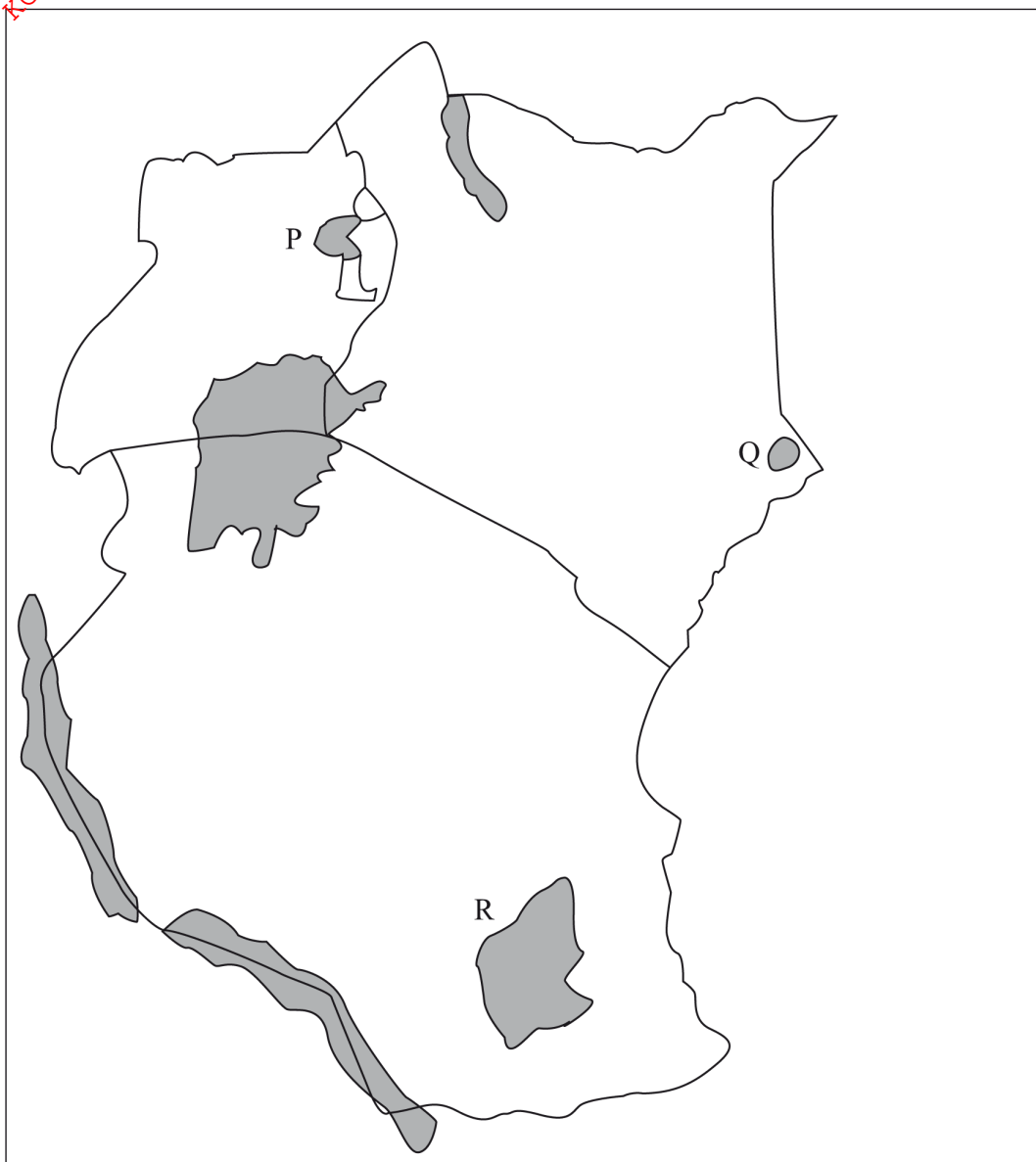
- 9 (a) (i) Name **two** types of submerged highland coasts. (2 marks)
- (ii) Identify **two** resultant features of the emerged highland coasts. (2 marks)
- (b) State **three** factors influencing deposition by ocean waves. (3 marks)
- (c) With the aid of labelled diagrams describe the formation of the following coastal features:
- (i) Fringing reef; (5 marks)
- (ii) Spit. (5 marks)
- (d) Explain the significance of oceans to human activities. (8 marks)
- 10 (a) (i) Name **two** mountains in East Africa which are ice capped. (2 marks)
- (ii) Identify **three** ways in which ice moves. (3 marks)
- (b) Describe the formation of the following glacial features:
- (i) Hanging valley; (6 marks)
- (ii) Pyramidal peak. (6 marks)
- (c) You are required to carry out a field study on erosional features in glaciated lowland area.
- (i) Give **two** reasons why you would require a working schedule. (2 marks)
- (ii) Name **three** erosional features you are likely to observe during the field study. (3 marks)
- (iii) Give **three** follow-up activities you would undertake after the field study. (3 marks)

3.9.2 Geography Paper 2 (312/2)

SECTION A (25 marks)

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

- 1 (a) Give **two** uses of diamond. (2 marks)
- (b) Identify **three** problems facing diamond mining in South Africa. (3 marks)
- 2 (a) Apart from coniferous forests, name **two** other types of natural forests. (2 marks)
- (b) State **three** characteristics of coniferous forests which favour their exploitation. (3 marks)
- 3 Use the map of East Africa below to answer question (a).



- (a) Name the game reserves marked P, Q and R. (3 marks)
- (b) State **two** factors which influence the distribution of wildlife in East Africa. (2 marks)
- 4 (a) Give **two** reasons why Geothermal power has not been fully exploited in Kenya. (2 marks)
- (b) State **three** causes of the energy crisis in the world. (3 marks)
- 5 (a) Identify the **two** types of internal trade. (2 marks)
- (b) Give **three** factors that limit trade among the member states of the common market for Eastern and Southern Africa (COMESA). (3 marks)

SECTION B: (75 marks)

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

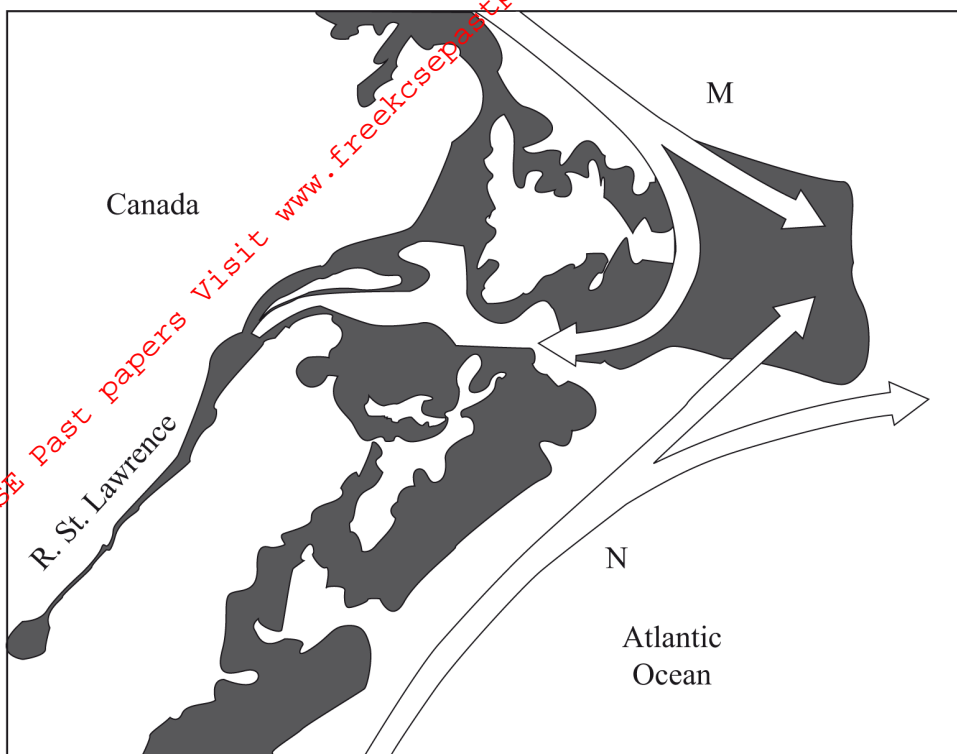
6 Study the photograph below and use it to answer question (a)



- (a) (i) Identify the type of photograph shown above. (1 mark)
- (ii) Name the type of settlement shown on the photograph. (1 mark)
- (iii) What time of the day was the photograph taken? (1 mark)
- (iv) Draw a rectangle measuring 15 cm by 10 cm. On it, sketch and label **five** human features shown on the photograph. (6 marks)

- (b) Explain **four** economic factors that influence settlement. (8 marks)
- (c) Describe **four** negative effects of urbanization. (8 marks)
- 7 (a) Explain **three** social factors that influence agriculture. (6 marks)
- (b) (i) Describe the cultivation of oil palm from land preparation to harvesting. (7 marks)
- (ii) Give **three** uses of palm oil in Nigeria. (3 marks)
- (c) Explain **three** reasons why horticultural farming is encouraged in Kenya. (6 marks)
- (d) Give **three** factors which favours beef farming in the Nyika plateau. (3 marks)
- 8 (a) Explain **four** ways in which land is being rehabilitated in Kenya. (8 marks)
- (b) (i) State **two** ways in which the salinity of the polders is reduced in The Netherlands. (2 marks)
- (ii) Explain **four** ways in which the Zuyder Zee project benefits The Netherlands. (8 marks)
- (c) You intend to carry out a field study on irrigation farming in Mwea Tebere Irrigation Scheme:
- (i) Identify the **two** types of hypotheses you would develop for the study. (2 marks)
- (ii) Name **three** crops, grown in the scheme that you are likely to identify. (3 marks)
- (iii) Give **two** reasons why you need to sample the area of study. (2 marks)
- 9 (a) Define the term fishing. (2 marks)
- (b) Explain **two** ways in which each of the following factors negatively affects fishing in Kenya.
- (i) Agricultural activities. (4 marks)
- (ii) Water weeds. (4 marks)

- (c) Use the map of North-West Atlantic fishing ground to answer questions (c)(ii) and (iii).



- (i) Give **three** types of fish species caught in the North-West Atlantic fishing ground. (3 marks)
- (ii) Name the Ocean currents marked M and N. (2 marks)
- (iii) Explain **two** ways in which the convergence of Ocean currents marked M and N influence fishing. (4 marks)
- (d) Give **three** differences between fishing in Kenya and Japan. (6 marks)
- 10 (a) What is environmental management? (2 marks)
- (b) (i) Explain **four** negative effects of floods. (8 marks)
- (ii) State **two** measures being taken to control lightning. (2 marks)
- (c) Explain the significance of conserving the environment. (8 marks)
- (d) Your Geography class carried out a field work on floods along a river.
- (i) Name **two** types of field work they could have used. (2 marks)
- (ii) Give **three** advantages of studying floods through field work. (3 marks)