

3.10 GEOGRAPHY (312)

3.10.1 Geography Paper 1 (312/1)

SECTION A

Answer all the questions in this section.

- 1 (a) State **three** reasons why it is important to study Geography. (3 marks)
- (b) Identify **three** ways in which Geography is related to Agriculture. (3 marks)
- 2 (a) What is weather forecasting? (2 marks)
- (b) Give **three** elements of weather. (3 marks)
- 3 (a) Name **three** features that make up the hydrosphere. (3 marks)
- (b) Explain how the movement of magma causes earth movement. (2 marks)
- 4 (a) Distinguish between a river capture and a river rejuvenation. (2 marks)
- (b) Give **three** ways in which a river transports its load. (3 marks)
- 5 State **four** ways in which the savanna grasslands have adapted to climatic conditions. (4 marks)

SECTION B

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

- 6 Study the map of Oyugis 1:50,000 (sheet 130/1) provided and answer the following questions.
- (a) (i) What type of map is Oyugis map extract? (1 mark)
- (ii) Give **two** scales that have been used in the map extract. (2 marks)
- (iii) Measure the length of the township boundary shown on the map. Give your answer in kilometres. (2 marks)
- (iv) Calculate the area covered by Kodera forest. Give your answer in square kilometres. (2 marks)
- (b) (i) Identify the methods that have been used to represent relief of the area covered by the map. (2 marks)
- (ii) Name the physical features found in the grid square 6842. (2 marks)



- (c) Describe the drainage of the area covered by the map. (6 marks)
- (d) (i) Apart from agriculture, name **two** other economic activities in the area covered by the map. (2 marks)
- (ii) Citing evidence from the map, give **three** reasons why the area covered by the map is suitable for agricultural activities. (6 marks)
- 7 (a) (i) Apart from metamorphic rocks, name two other categories of rocks. (2 marks)
- (ii) Describe the following processes of formation of metamorphic rocks.
- Dynamic metamorphism (4 marks)
 - Thermal metamorphism (4 marks)
- (b) Explain **three** ways in which rocks are significant to human activities in Kenya. (6 marks)
- (c) You intend to carry out a field study on the types of rocks within the school locality.
- (i) Identify **three** items that you will carry during the study. (3 marks)
- (ii) State **three** activities that you will be involved in during the study. (3 marks)
- (iii) List **three** types of metamorphic rocks that you are likely to identify. (3 marks)
- 8 (a) (i) Apart from anticlinorium and synclinatorium complex, name **three** other types of folds. (3 marks)
- (ii) With an aid of a well labelled diagram, describe the formation of anticlinorium and synclinatorium complex. (6 marks)
- (b) (i) Name the young fold mountains found in the following continents.
- Africa (1 mark)
- Europe (1 mark)
- Asia (1 mark)
- North America (1 mark)
- (ii) Describe the formation of fold mountains according to the convectional current theory. (4 marks)

- (c) Explain **four** effects of folding on physical environment. (8 marks)
- 9 (a) (i) Define the term hydrological cycle. (2 marks)
- (ii) Give **three** factors that influence the occurrence of surface runoff. (3 marks)
- (iii) State the significance of the hydrological cycle. (4 marks)
- (b) Describe how the following lakes were formed.
- (i) moraine dammed lake (2 marks)
- (ii) oxbow lake (4 marks)
- (c) Explain ways in which lakes modify the climate of the surrounding areas. (6 marks)
- (d) Give **four** reasons why some lakes have fresh water. (4 marks)
- 10 (a) (i) What is soil structure? (2 marks)
- (ii) Explain how the following factors influence soil formation.
- Time (2 marks)
 - Parent rock (4 marks)
- (b) Describe the following properties of soil.
- Soil texture (2 marks)
 - Soil porosity (2 marks)
 - Soil colour (2 marks)
- (c) State **four** negative effects of soil erosion. (4 marks)
- (d) You are planning to carry out a field study on soil around your school.
- (i) State **four** preparations that you will make for the study. (4 marks)
- (ii) Give reasons why it is important to study soils through field study. (3 marks)

