



312/1 - **GEOGRAPHY** - Paper 1

Nov. 2017 - 2¾ hours

Name ..... Index Number .....

Candidate's Signature ..... Date .....

**Instructions to candidates**

- (a) This paper has **two** sections: **A** and **B**.
- (b) Answer **all** the questions in section **A**.
- (c) Answer **question 6** and any other **two** questions from section **B**.
- (d) This paper consists of **20** printed pages.
- (e) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- (f) Candidates should answer the questions in **English**.

**For Examiner's Use Only**

Section	Questions	Maximum Score	Candidate's Score
<b>A</b>	1-5	25	
	6	25	
<b>B</b>	7	25	
	8	25	
	9	25	
	10	25	
<b>Total Score</b>		<b>100</b>	



## 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 Koderia 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)

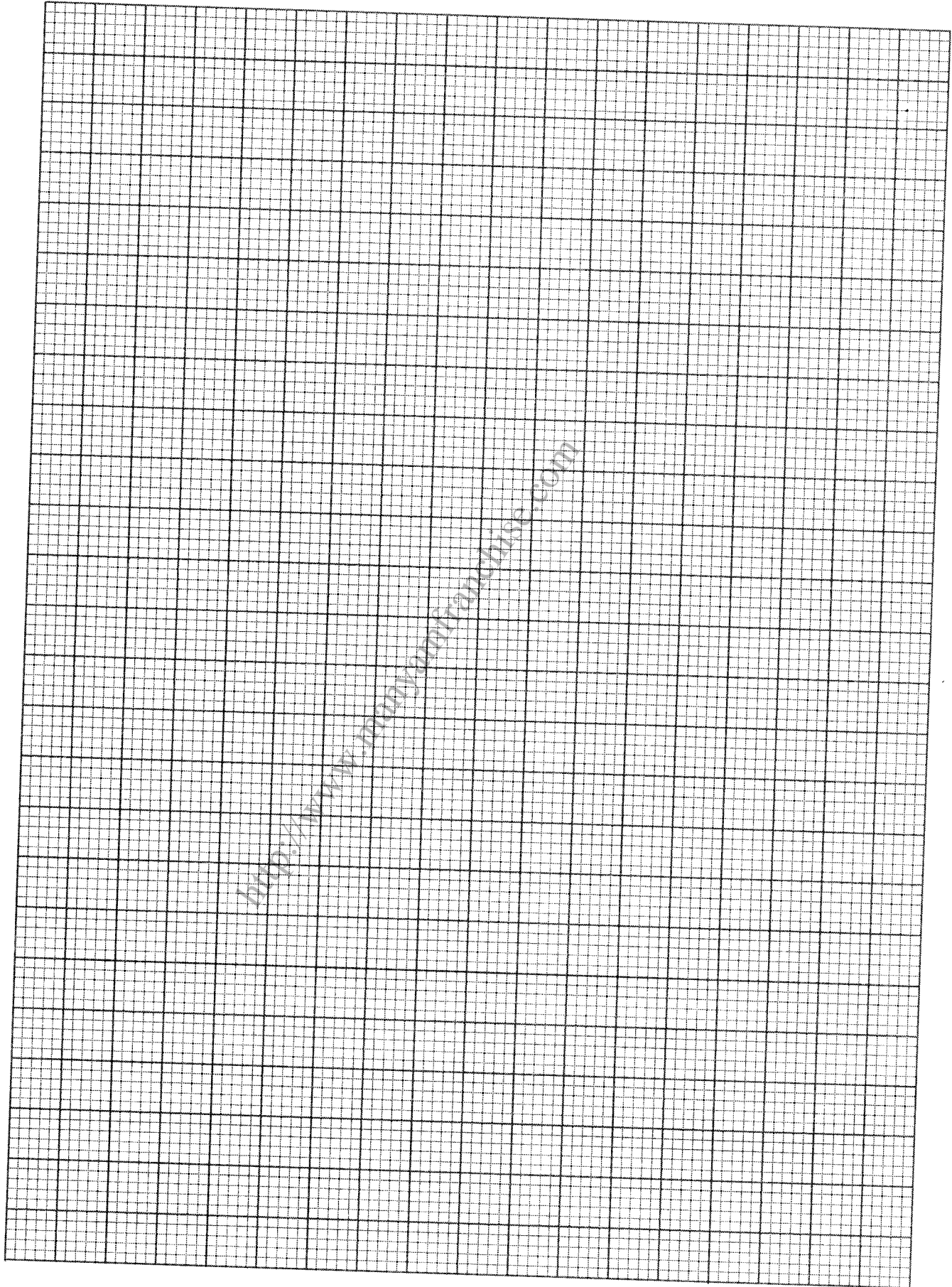


- (d) (i) Apart from agriculture, name **two** other economic activities in the area covered by the map. (2 marks)
- (ii) Citing evidence from the map, give **three** reasons why the area covered by the map is suitable for agricultural activities. (6 marks)
7. (a) (i) Apart from metamorphic rocks, name **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)





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