END TERM 3 2026
GRADE 10
GEOGRAPHY
SUMMATIVE ASSESSMENT
TIME: 2 HOURS 30 MINUTES

Name	_____
Assessment Number	_____
Class / Stream	_____
Date	_____

INSTRUCTIONS TO CANDIDATES

- Answer ALL questions.
- Read each question carefully before answering.
- Use a pencil for maps, diagrams and graphs where appropriate.
- Show all calculations and working.
- Where a sketch map or diagram is required, include appropriate labels.
- Use the spaces provided and write clearly and legibly.
- All questions carry the marks indicated.

TOTAL: 100 MARKS

EXAMINER'S USE ONLY

Section	Questions	Maximum Score	Candidate Score
A	1–10	20	
B	11–15	40	
C	16–19	40	
TOTAL		100	

SECTION A — SHORT STRUCTURED QUESTIONS (20 MARKS)

1. State two branches of Geography. **(2 marks)**

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_____
_____

2. State two uses of topographical maps. **(2 marks)**

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_____
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3. Name two methods of collecting geographical data. **(2 marks)**

_____
_____
_____

4. State two components of a Geographical Information System (GIS). **(2 marks)**

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_____
_____

5. Name the three major types of rocks according to mode of formation. **(2 marks)**

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_____
_____

6. State two causes of earthquakes. **(2 marks)**

_____
_____
_____

7. State two types of agriculture practised in the world. **(2 marks)**

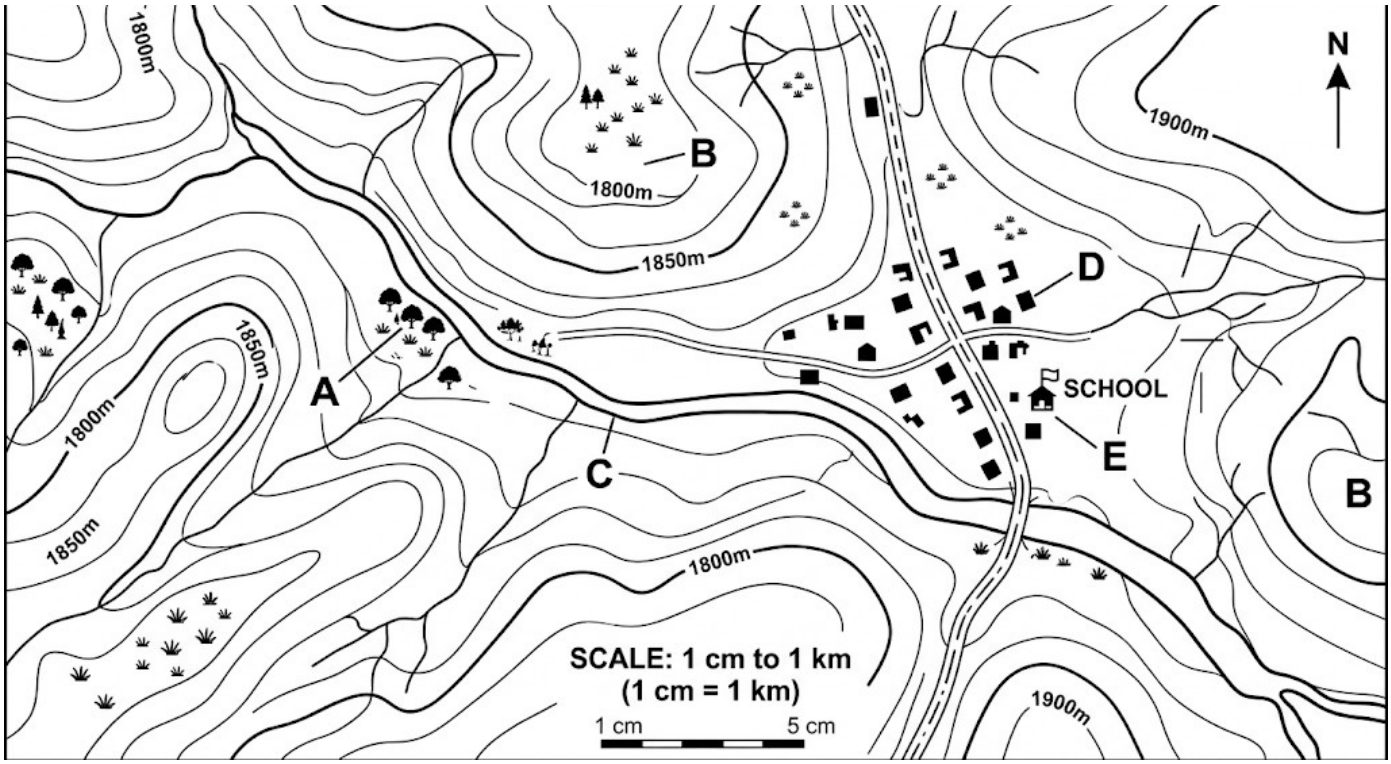
8. State two methods of extracting minerals. **(2 marks)**

9. Name two renewable sources of energy. **(2 marks)**

10. State two factors influencing the location of industries. **(2 marks)**

SECTION B — MAPS, DATA, NATURAL SYSTEMS AND HUMAN ACTIVITIES (40 MARKS)

11. Study the simplified topographical map extract below and answer the questions that follow.



(a) Identify features A, B and C from the map. **(3 marks)**

(b) State three methods of representing relief that may be used on a topographical map. **(3 marks)**

(c) Explain two ways in which drainage and vegetation information on a topographical map can assist resource mapping. **(2 marks)**

12. The table below shows the number of households participating in selected income-generating activities in a locality.

Activity	Number of households
Crop farming	120
Livestock keeping	80
Small-scale mining	30
Trade and services	70

(a) Calculate the total number of households represented in the table. **(2 marks)**

(b) Calculate the percentage of households involved in crop farming. **(2 marks)**

(c) State two ways in which data such as these can be presented graphically. **(2 marks)**

(d) State two advantages of using statistics in geographical studies. **(2 marks)**

13. A region experiences frequent volcanic activity and occasional earthquakes.

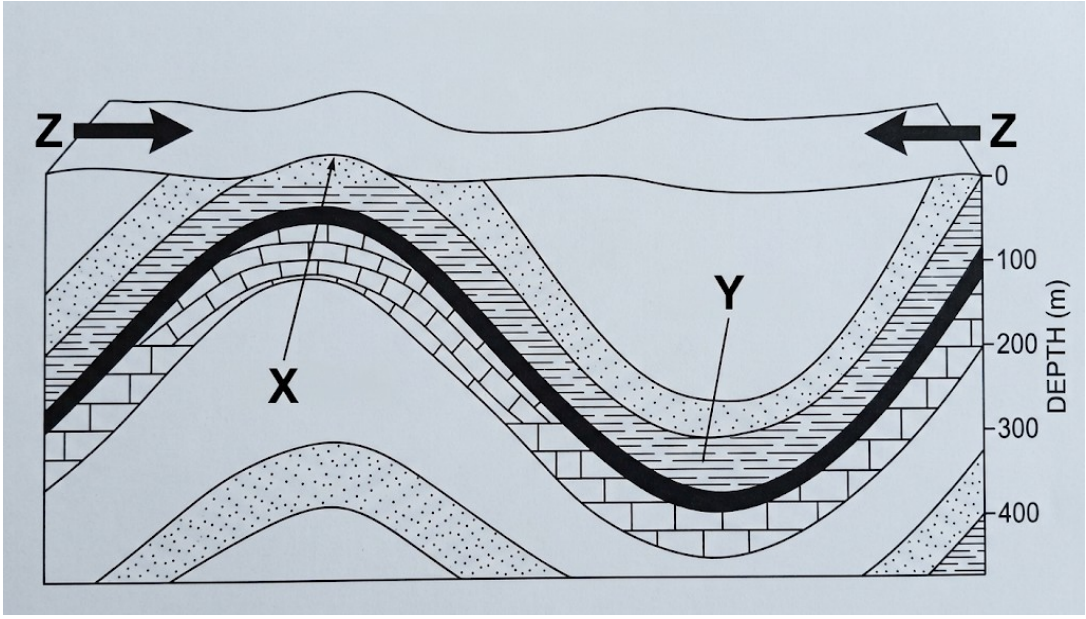
(a) Distinguish between intrusive and extrusive volcanic features. **(2 marks)**

(b) State two effects of volcanic activity on the environment. **(2 marks)**

(c) Explain two ways in which communities can prepare for and manage earthquake disasters. **(2 marks)**

(d) State two scales used in measuring earthquakes and indicate what each measures. **(2 marks)**

14. Study the diagram below representing a fold produced by tectonic forces.



(a) Identify the fold labelled X and the fold labelled Y. **(2 marks)**

(b) Explain how folding occurs. **(2 marks)**

(c) State two resultant features or forms associated with folding. **(2 marks)**

(d) Explain two ways in which folding can influence human activities. **(2 marks)**

15. A county plans to expand agriculture, mining, energy production and industry while conserving its environment.

(a) State two strategies for enhancing agricultural productivity in Kenya. **(2 marks)**

(b) Explain two environmental problems associated with mining and give one possible solution for each. **(4 marks)**

(c) State two reasons why renewable energy is important for socio-economic development. **(2 marks)**

SECTION C — EXTENDED APPLICATION AND ANALYSIS (40 MARKS)

16. A mineral occurs in a region where it can be extracted by open-cast mining. The mining company plans to increase production.

(a) Explain three factors that influence the occurrence and exploitation of minerals. **(3 marks)**

(b) Describe the main stages involved in extracting a mineral by open-cast mining. **(3 marks)**

(c) Explain two environmental effects of mining and suggest one rehabilitation measure for each. **(4 marks)**

17. A geothermal power project is proposed in a volcanic region of Kenya.

(a) Explain why geothermal energy is associated with volcanic regions. **(3 marks)**

(b) Describe how electricity can be generated from geothermal energy. **(3 marks)**

(c) Explain two advantages and two challenges of renewable energy development in Kenya. **(4 marks)**

18. A company intends to establish a manufacturing industry in Kenya.

(a) Explain four factors that should be considered when selecting the location of the industry. **(4 marks)**

(b) Discuss three ways in which industries contribute to economic and social development. **(3 marks)**

(c) State three challenges associated with industrialisation in Kenya and suggest one solution to each. **(3 marks)**

19. A county government wants to use Geography and digital technologies to plan development in a rapidly growing settlement.

(a) Explain how GIS can be used to locate and manage designated crossing points on roads. **(3 marks)**

(b) Describe how geographical data can be collected, analysed and presented when investigating a local geographical problem. **(3 marks)**

(c) Using examples, explain how agriculture, energy, mining and industry can be managed sustainably to support socio-economic development. **(4 marks)**