

NYAMIRA NORTH SUB-COUNTY PRE MOCK EXAMS

Kenya Certificate of Secondary Education

312/1
Paper 1

GEOGRAPHY CONTEST

March. 2025– 2³/₄ hours

NameAdmission Number

ClassDateCandidate’s Signature.....

Instructions to candidates

- a) Write your name and Admission Number in the spaces provided above.
- b) Write your class, date of examination and sign in the spaces provided above.
- c) This paper consists of two sections; **A** and **B**.
- d) Answer **all** the questions in section **A**.
- e) Answer question **6** and any other **two** questions from section **B**.
- f) Answers must be written in the spaces provided at the end of question
- g) This paper consists of **5** printed pages.
- h) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- i) Candidates should answer the questions in English.

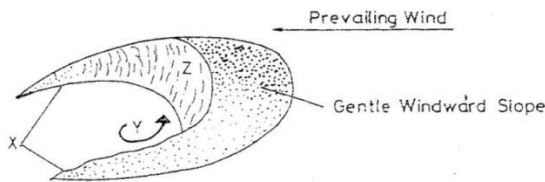
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Section	Question	Maximum Score	Candidate’s Score
A	1 - 5	25	
B	6	25	
		25	
		25	
Total Score			

SECTION A

Answer all questions from this Section.

- 1(a) What is an earthquake? (2 marks)
(b) State three natural causes of earthquakes. (3 marks)
- 2(a) Differentiate between weathering and mass wasting. (2mks)
(b) State three physical factors that influence the rate of mass movement. (3mks)
- 3(a) Differentiate between plutonic and volcanic rocks. (2mks)
(b) Give an example in each of the following types of igneous rocks.
(i) Plutonic (1mk)
(ii) Hypabyssal (1mk)
(iii) Volcanic (1mk)
- 4 The diagram below represents a barchan. Use it to answer questions (a)



- (a) Name
(i) the feature marked X (1mark)
(ii) The air current marked Y (1mark)
(iii) The slope marked Z (1 mark)
- (b) Apart from barchans name two other features formed in the desert as a result wind deposition (2 marks)
- 5(a) List **three** landmasses that formed from Gondwanaland according to continental drift theory.(3 marks)
(b) Give **two** types of tectonic plate boundaries. (2 marks)

SECTION B

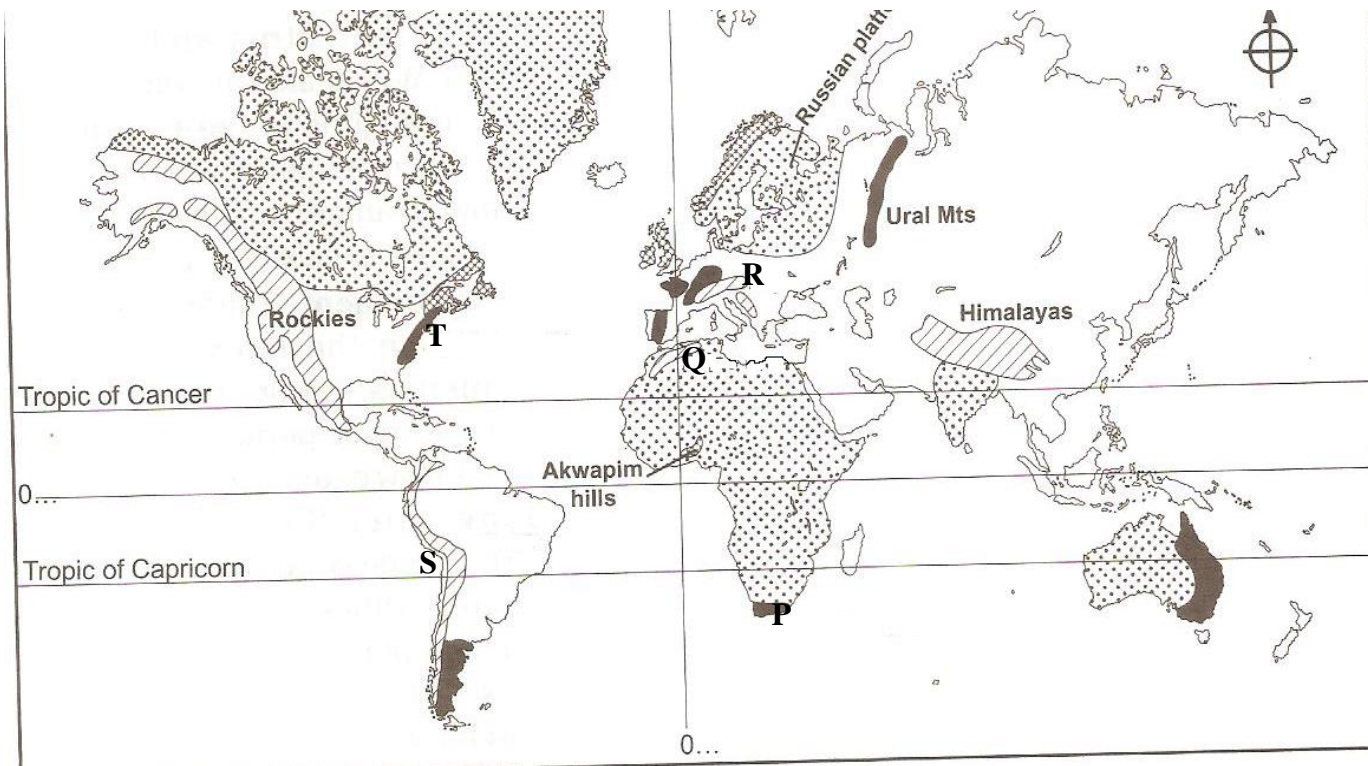
Answer question 6 and any other TWO questions from this section.

6. Study the map of TAMBACH 1:50 000 (sheet 90/3) provided and answer the following questions.
- (a) (i) Give two districts represented in the area covered by the map.. (2mks)
(ii) What is the magnetic variation as at the time the map was taken? (2mks)
(iii) Apart from contours, name two ways in which relief has been represented in the area covered by the map. (2mks)
(iv) What is the height of the hill in grid square 0475? (2mks)
- (d) Using a vertical scale of 1 cm rep 100m ,draw a cross section from grid reference 830730 to 900730. On it mark and label (5 marks)
- Dry weather road
 - Escarpment
 - River Kerio
- (c) A road is to be constructed on the Western part of the area covered by the map. Give three problems that would be experienced during the construction of the road. (3mks)
- (d) (i) Describe the drainage of the area covered by the map. (5mks)
(ii) Citing evidence from the area covered by the map give two functions of Tambach municipality. (4mks)

7(a) What is folding? (2mks)

(b) (i) The following map shows the location of fold mountain ranges of the world.

Name the mountain ranges marked P, Q, R, S and T. (5mks)



(ii) With the aid of a well labeled diagram describe how a recumbent fold is formed. (6mks)

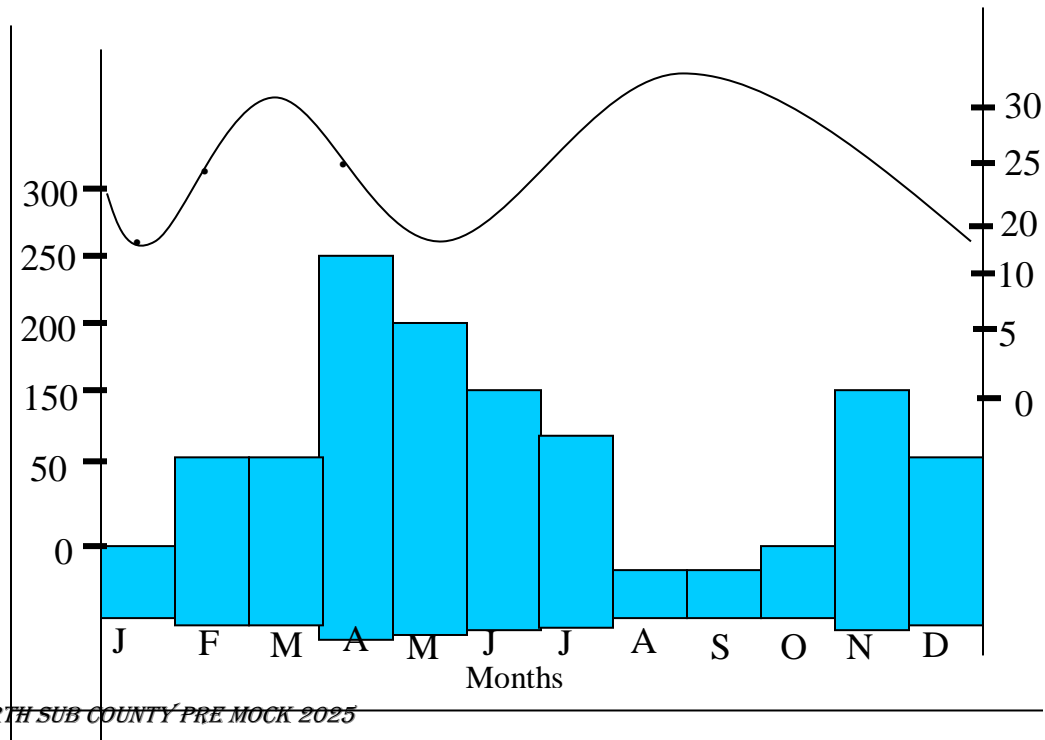
(c) Apart from Fold Mountains name other main land forms resulting from folding. (3mks)

(d) Explain four ways in which fold mountains influences climate. (8mk)

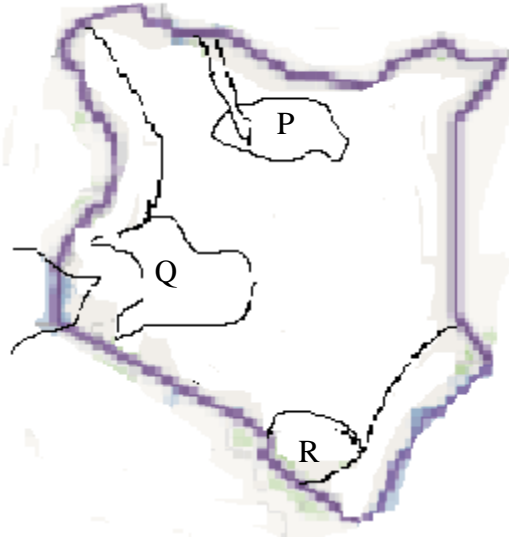
8. (a) (i) What is an isothermal layer? (2mks)

(ii) Name three isothermal layers found in the atmosphere. (3mks)

(b) The graph below shows climatic characteristics of a station in Kenya. Use it to answer the following questions.



- (i) Calculate the annual range of temperatures. (2mks)
- (ii) Calculate the annual total amount of rainfall received at the station. (2mks)
- (c) Describe six climatic conditions experienced in the Kenyan highlands. (6mks)
- (d) (i) The map below shows the climatic regions of Kenya. Name the regions marked P Q and R.



(ii) Give five development activities that the Kenyan government could initiate sustainably in the region marked P. (5mks)

(iii) Explain how the following factors influence the climate of a region.

Aspect. (2mks)

Ocean currents. (2mks)

9 (a) (i) What is a lake?

(ii) Name two examples of Lakes in Kenya formed by tectonic movement. (2mks)

(b) (i) With the aid of well labeled diagrams describe how lake paradise in Kenya was formed. (8mks)

(ii) Name two examples of Lakes in Africa, outside East Africa, that were formed in a similar way. (2mks)

(c) Explain four negative effects which human activities have on lakes. (8mks)

(d) Your Geography teacher has asked you to carry out a field study on a lake near your school.

(i) Formulate two hypothesis of the Study. (2mks)

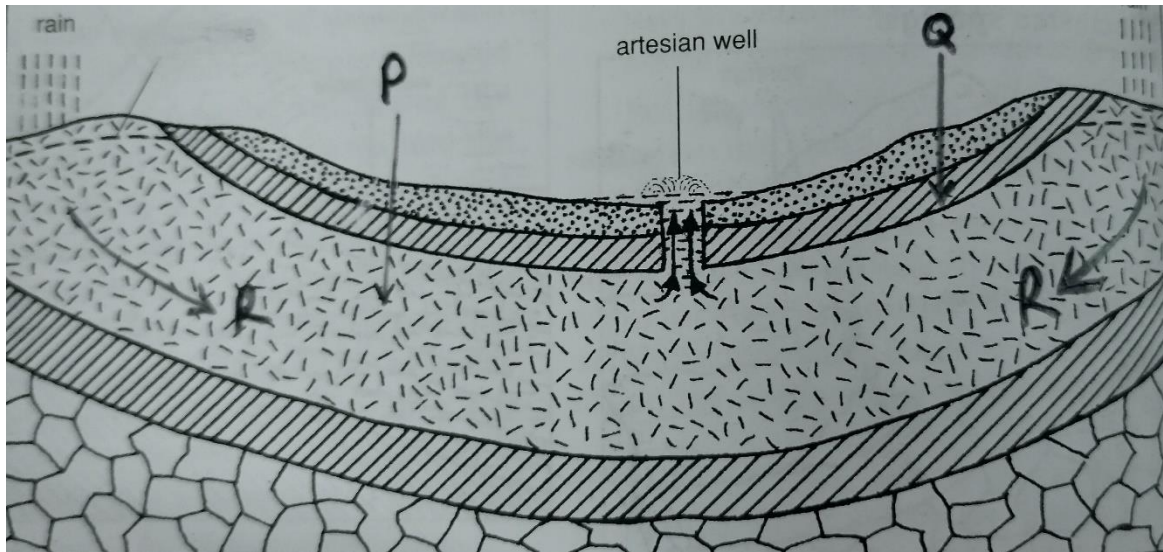
(ii) State any three methods you would use to collect the data. (3mks)

10.(a)(i) What is a karst scenery? (2 marks)

(ii) State **five** characteristics of karst landscapes. (5 marks)

(b) Give **four** sources of ground water. (4 marks)

(c) (a) The diagram below shows an artesian basin. Use it to answer question (a).



- (a) Identify ;
- (i) the part marked **P**. (1 mark)
 - (ii) the layer marked **Q** (1 mark)
 - (iii) the process marked **R** (1 mark)
 - (iv) Describe how artesian basin forms (3 marks)

(d) Explain four ways in which karst features influence human activities (8 marks)

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