

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Adm: \_\_\_\_\_

312/1

Index: \_\_\_\_\_

GEOGRAPHY

Sign: \_\_\_\_\_

Paper 1

September 2021

Time: 2 <sup>3</sup>/<sub>4</sub> Hours

KASSU-JET JOINT EXAMINATION  
Kenya Certificate of Secondary Education  
312/1  
Paper 1  
GEOGRAPHY

Instructions to Candidates

- This paper has two sections A and B
- Answer ALL the questions in section A. In section B, answer question 6 and any other two questions.

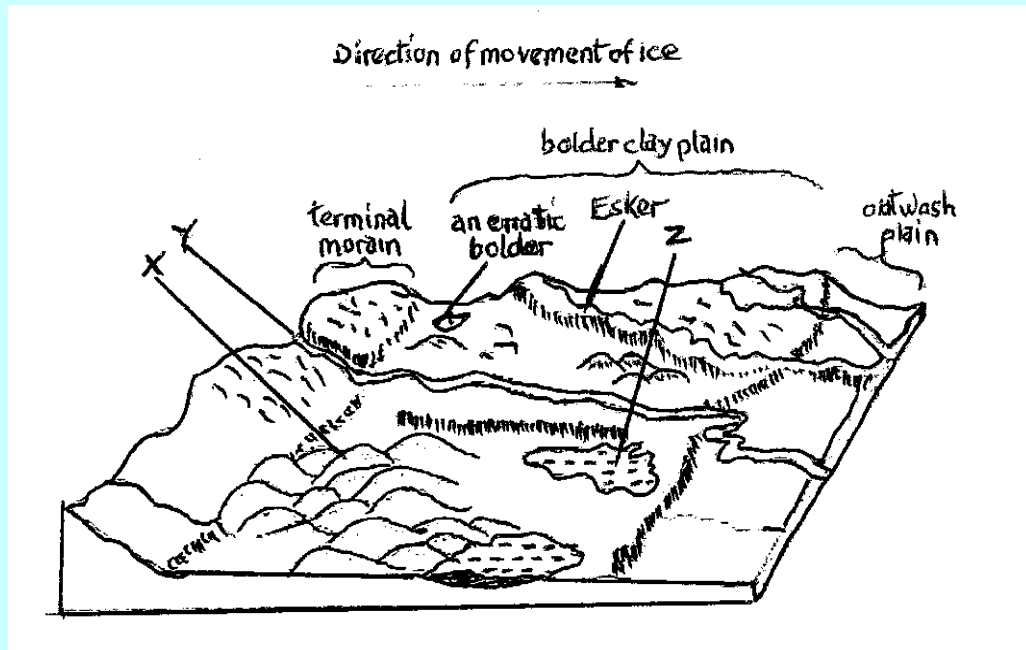
FOR EXAMINER'S USE

SECTION A	
QUESTION 6	
QUESTION 7	
QUESTION 8	
QUESTION 9	
QUESTION 10	

## SECTION A

Answer All the questions in this section

1. (a) State three effects of revolution of the earth. (3marks)  
(b) The local time at Tema on  $0^{\circ}$  longitude is 12.00 noon. Calculate the local time at Hala 40 $^{\circ}$ E. (2marks)
2. (a) What is temperature? (2marks)  
(b) Give three factors that determine the amount of solar isolation received on the earth's surface. (3marks)
3. (a) What are extrusive volcanic features? (2marks)  
(b) Apart from basic lava domes, name three other vent eruption volcanic features. (3marks)
4. (a) State two conditions that may lead to glacial deposition. (2marks)  
(b) The diagram below shows some features formed from glacial deposition in lowland areas. Name the features marked X,Y and Z. (3marks)



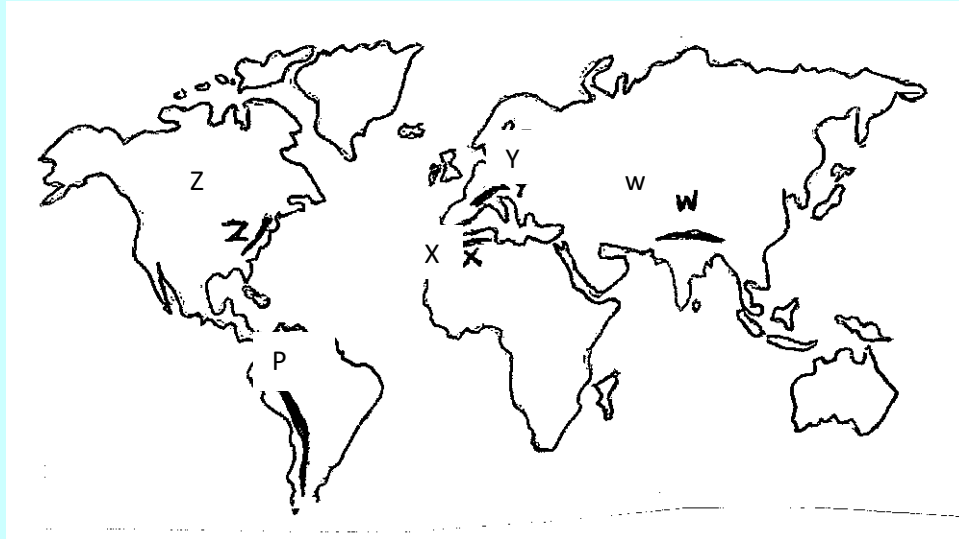
5. (a) Give two processes through which wind erodes the desert surface. (2marks)  
(b) Describe how a mushroom block is formed. (3marks)

## SECTION B

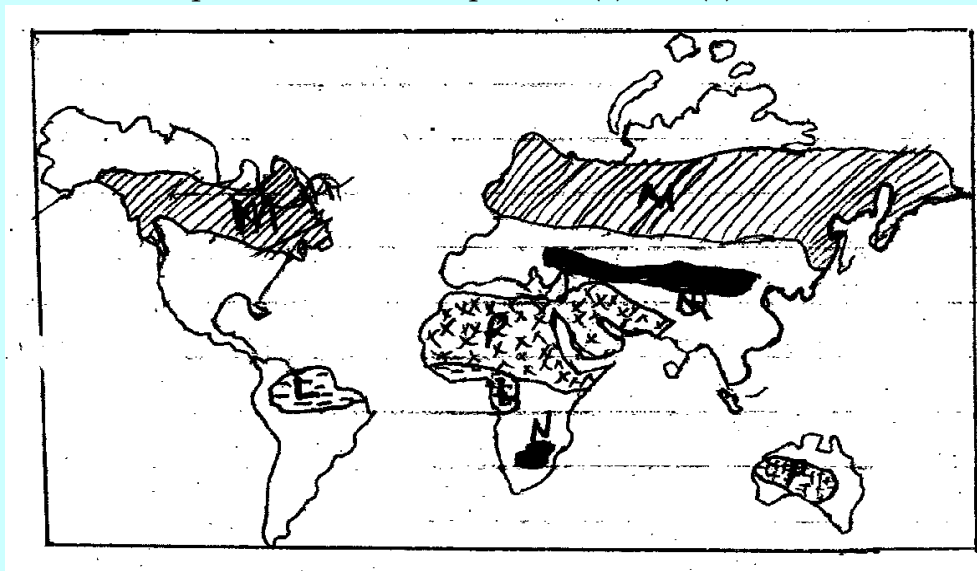
**Answer question 6 and any other Two from the remaining.**

6. Study the map of Busia 1:50,000 (sheet 101/1) provided and answer the following questions.
- (a) (i) What is the vertical interval of the area covered by the map? (1mark)  
(ii) Give the six figure grid reference of the chief's house, (2marks)  
(iii) What was the magnetic variation of the area when the map was drawn? (1mark)  
(iv) What is the height of Odhiado hill? (2marks)
- (b) (i) Measure the distance of the international boundary from point where it crosses northing 41 to Northing 50 (Give your answer to the nearest 100 meters) (2marks)  
(ii) Calculate the area enclosed by river sio, south of Northing 50, west of all-weather road. Loose surface (B8/3) and East of the international boundary. (2marks)
- (c) (i) Using a vertical scale of 1cm to represent 40 meters, draw a cross section along Northing 37 from Easting 24 to Easting 31. On the cross-section mark and name;
- All weather road; loose surface
  - River
  - Swamp
  - Hill
  - Riverine trees
- (ii) Calculate the vertical exaggeration of the cross section (2marks)
- (iii) Determine the intervisibility of the cross section you have drawn. (2marks)
- (d) Describe the drainage of the area covered by the map. (5marks)

7. (a) Identify four causes of earth movements. (4marks)
- (b)(i) Name three types of tectonic plate boundaries. (3marks)
- (ii) Give four reasons why it is necessary to study the plate tectonic theory. (4marks)
- (c) The map below shows the location of some fold mountains ranges.



- (i) Name the mountains ranges marked W, X Y and Z (4marks)
- (ii) Apart from Fold Mountains, name two other features associated with folding. (2marks)
- (iii) Explain four positive effects of Fold Mountains to human activities. (8marks)
8. Use the map below to answer question (a) and (b)



(a)(i) Name the:

- Vegetation marked L,M
- Grasslands marked N,Q

(2marks)

(2marks)

(ii) Identify the type of climate marked P.

(1mark)

(b) Explain four ways in which vegetation in the region marked P has adapted to the climatic conditions.

(8marks)

(c)(i) Describe the characteristics of the equatorial climate.

(5marks)

(ii) What is climate change?

(2marks)

(iii) State two natural causes of climate change.

(2marks)

(e) State four consequences of climate change on the physical environment.

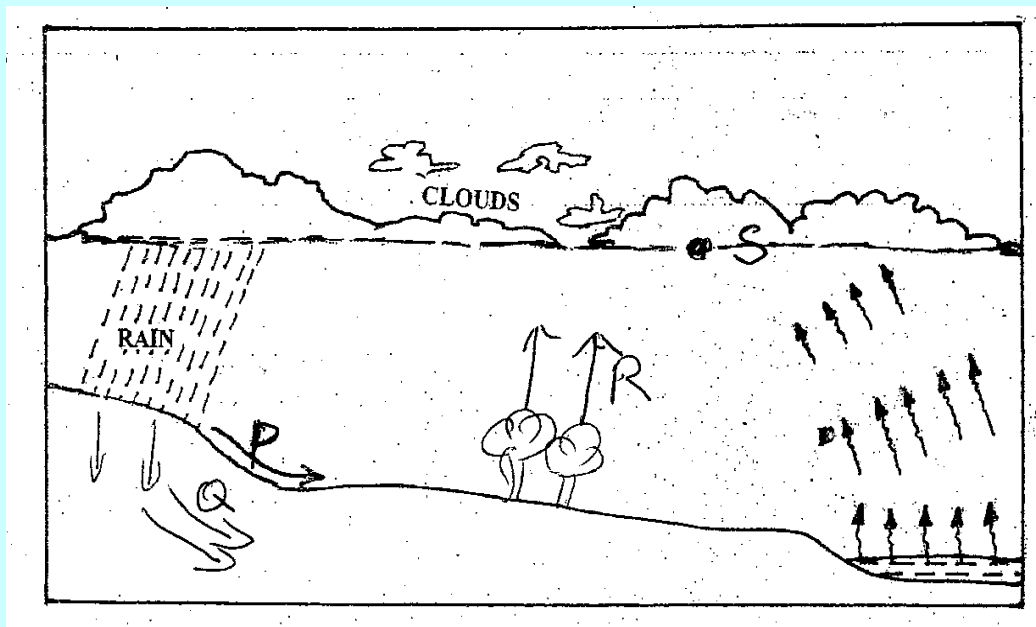
(4marks)

9. (a)(i) Distinguish between a river divide and interfluvies.

(2marks)

(ii) The diagram below shows the processes of hydrological cycle. Name the processes marked P,Q,R and S

(4marks)



(iii) Explain two significance of the hydrological cycle.

(4marks)

(b) Describe two processes by which a river transports its load.

(4marks)

(c) Describe the following drainage patterns:

(i) Superimposed

(3marks)

(ii) Dendritic

(2marks)

- (d) Your class is planning to carry out a field study on a river in its old stage.
- (i) Apart from flood plain, name two other features you are likely to identify  
(2marks)
- (ii) State three activities students would engage in during the field study.  
(3marks)
- (iii) Describe three characteristics of the flood plain they would identify.  
(3marks)
10. (a)(i) Define the term soil profile. (2marks)
- (ii) Outline three factors that contribute to the development of soil catena.  
(3marks)
- (b) Explain how the following factors influence the formation of soil.
- Parent rock (3marks)
  - Biotic factors (3marks)
- (c) You intend to carry out a field study on the management and conservation of soil in the area near your school.
- (i) Explain how the following influences the characteristics of the soil.
- Irrigation (4marks)
  - High temperature (2marks)
- (ii) Give three reasons why you are likely to rely on observation as a method of data collection. (3marks)
- (d) Describe laterisation as soil forming process. (5marks)

**312/2**  
**GEOGRAPHY**  
**Paper 2**  
**SEPTEMBER 2021**  
**Time: 2¾ hours**

**KASSU-JET JOINT EXAMINATION**  
**Kenya Certificate of Secondary Education**  
**312/2**  
**Paper 2**  
**GEOGRAPHY**

**INSTRUCTIONS TO STUDENTS**

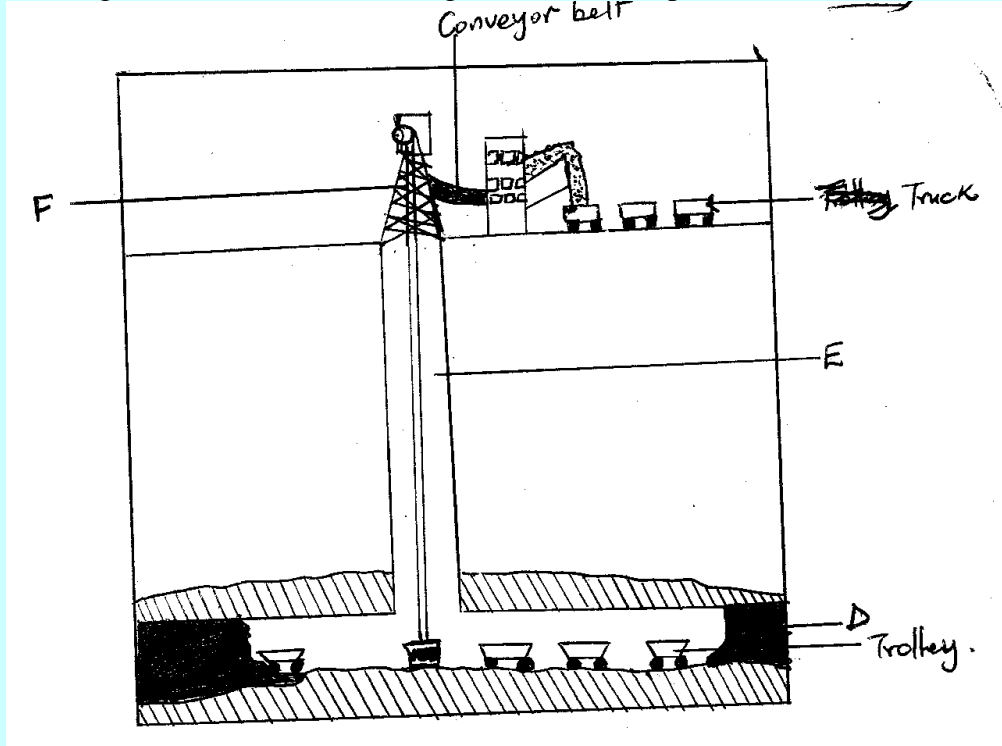
- *This paper has **two** sections **A** and **B***
- *Answer **ALL** the questions in section **A**. In section **B** answer questions **6** and any other **TWO** questions.*

SECTION A	
QUESTION 6	
QUESTION 7	
QUESTION 8	
<b>TOTAL</b>	

## SECTION A

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

1. (a) The diagram below shows a mining drill. Name the parts marked D, E & F. (2 mks)



- (b) State two factors necessary for the occurrence of oil. (2 mks)
2. (a) Give two characteristics of softwood forests in Canada. (2 mks)
- (b) State three problems that affect forestry in Canada. (3 mks)
3. (a) State three physical conditions necessary for the growing of cocoa. (3 mks)
- (b) Outline two problems which are experienced in cocoa farming in Ghana. (2 mks)
4. (a) Distinguish between balance of trade and balance of payment. (2 mks)
- (b) State three efforts made by the Kenya government to promote external trade. (3 mks)
5. (a) Identify three causes of lightening. (3 mks)
- (b) State two advantages of windstorms. (2 mks)



## SECTION B

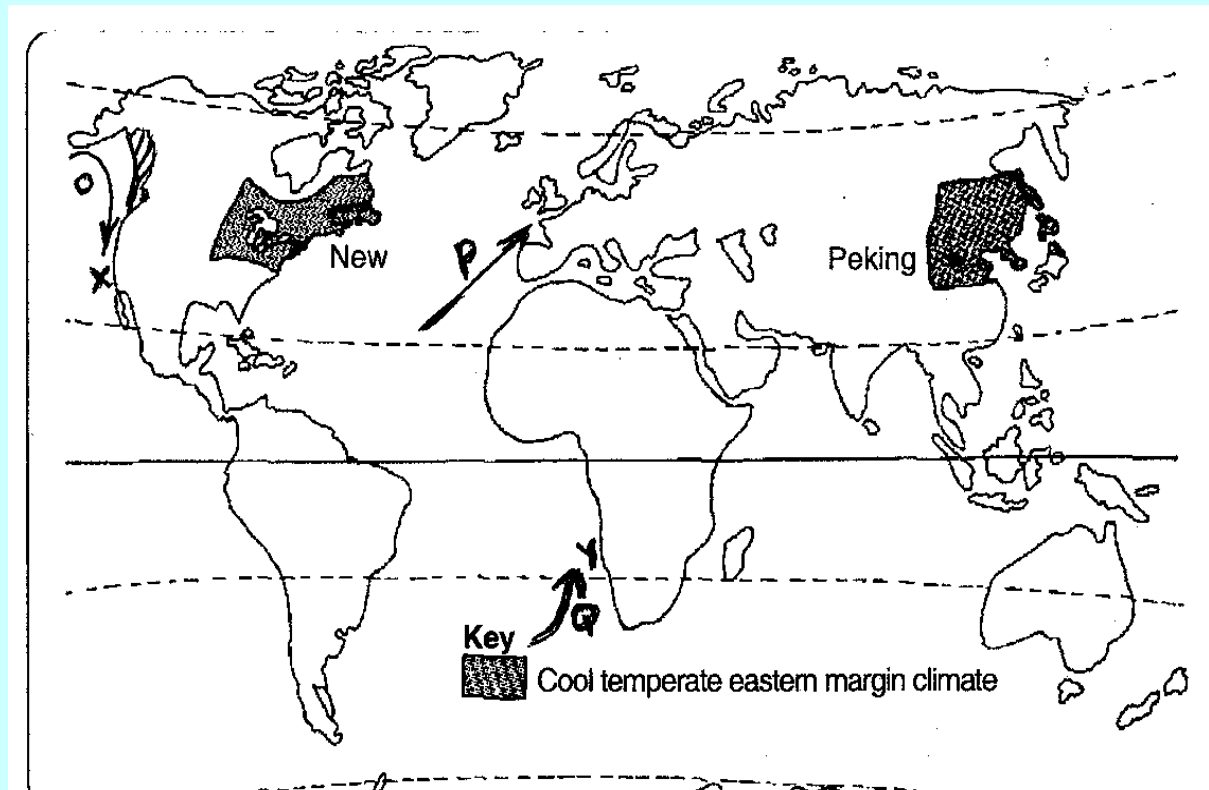
6. The photograph below shows beef farming in Kenya. Use it to answer question (a).



- (a) (i) Identify the type of photograph. (1 mk)
- (ii) Describe the features shown on the photograph. (3 mks)
- (iii) What indicators show that the area is suitable for beef farming. (3 mks)
- (b) Explain four measures taken by the Kenyan government to improve beef farming in Kenya. (8 mks)
- (c) (i) Name two exotic beef cattle kept in Argentina. (2 mks)
- (ii) List two areas in Argentina where beef cattle rearing is practised. (2 mks)
- (iii) Explain three physical factors favouring beef farming in Argentina. (6 mks)

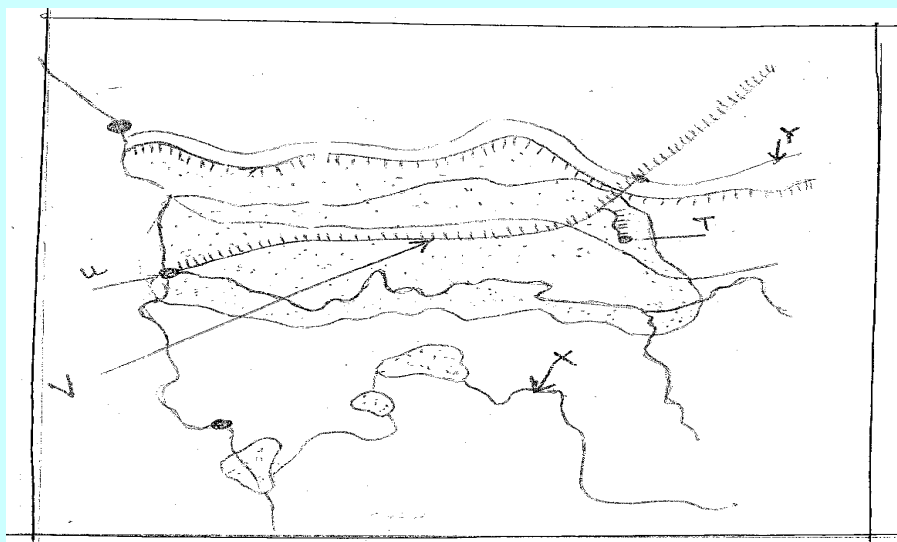
7. (a) (i) Name three types of fish. (3 mks)
- (ii) State three conditions for the growth of planktons in the ocean. (3 mks)

(b) Study the world map provided and answer the questions that follow.



- (i) Name the fishing grounds marked X & Y. (2 mks)
- (ii) Identify the Ocean currents marked O,P, Q. (3 mks)
- (c) Describe three major physical conditions that favour development of fishing ground X. (6 mks)
- (d) (i) Apart from Purse seine method, name three modern methods of fishing. (3 mks)
- (ii) Describe how purse seine method is used to catch fish. (5 mks)

8. (a) (i) What is geothermal power? (2 mks)
- (ii) Mention three locational sites of geothermal power production in Kenya. (3 mks)
- (iii) State four problems facing geothermal power development in Kenya. (4 mks)
- (b) (i) Give three reasons why Kenya must develop wind energy. (3 mks)
- (ii) Name three areas in Kenya where wind mills have been installed. (3 mks)
- (c) (i) What is management of energy. (2 mks)
- (ii) Explain four measures taken by the Kenya government to manage and conserve energy. (8 mks)
9. (a) Define the term cottage industry. (2 mks)
- (b) Outline four reasons why the county government of Nakuru should encourage foreign investors to establish jua-kali industries in the county. (4 mks)
- (c) Explain three factors which may lead to industrial inertia. (6 mks)
- (d) The map below represents the Ruhr industrial region of Germany. Use it to answer the questions that follow.



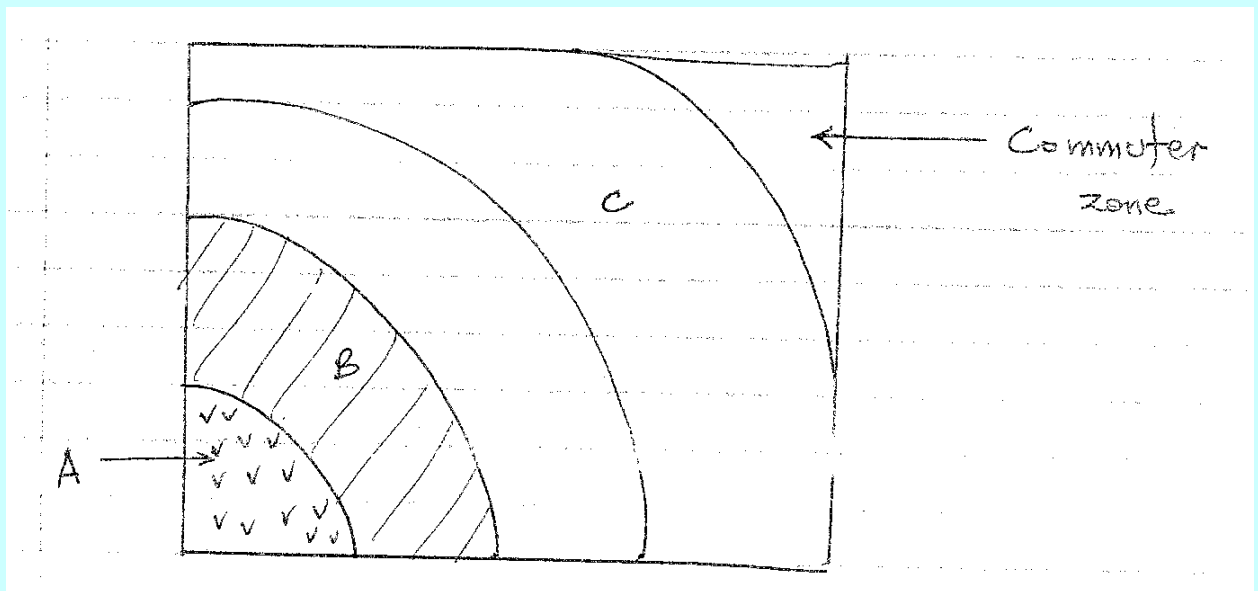
Ruhr – industrial Region and Transportation Lines

- (i) Name the rivers marked X and Y. (2 mks)
- (ii) Identify the towns labeled T and U. (2 mks)
- (iii) Name the canal labeled V. (1 mk)
- (iv) Name any two forms of power used in the Ruhr region apart from coal. (2 mks)
- (v) Explain three factors that led to the growth of industries in the Ruhr region. (6 mks)

10. (a) (i) What is urbanization? (2 mks)
- (ii) State three physical factors which influence the location of settlement. (3 mks)

(b) Give three social problems experienced in Kisumu city. (3 mks)

(c) The diagram below represents the functional zones of an urban centre. Use it to answer questions (i) and (ii).



- (i) Name the zone marked B. (1 mk)
  - (ii) Give four characteristics of the zone A. (4 mks)
- (d) Explain three factors that led to the growth of growth of Eldoret Town.