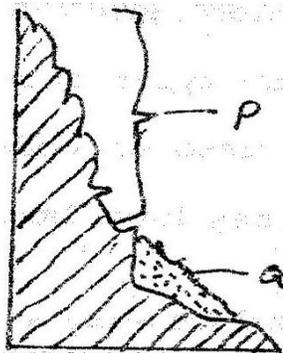


GEOGRAPHY PAPER 312/1 K. C. S. E, 2003
SECTION A

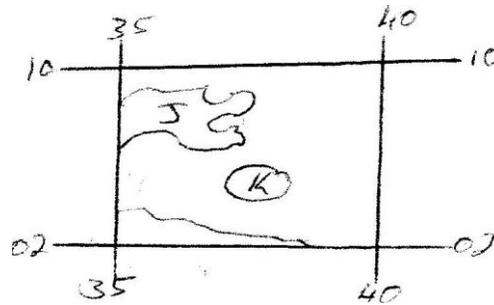
Answer all the questions in this section

1. a) State TWO factors that influence the rate of erosion by the river in its upper course.
b) (i) Define river rejuvenation
Name two features that result from river rejuvenation
2. a) State three conditions necessary for the development of a Karst scenery
b) Give two reasons why there are few settlements in Karst landscapes
3. a) State two conditions which may influence the occurrence of landslides
b) Using the diagram (in question paper), name



- (i) The type of mass movement shown
(ii) The features marked P and Q
4. a) i) In your answer booklet draw a diagram to show a simple fold and on it mark and name
b) Name two fold mountains in Africa
5. a) Name the type of rocks which results from the metamorphism of:
(i) Granite
(ii) Clay
b) Give two reasons why sedimentary rocks are widespread in the coastal plain of Kenya.
6. Study the map of Menu (1: 50,000, sheet 108/3) provided and answer the following questions
 - a) i) What is the height of Njorivola hill at grid square 4117
ii) Give two methods used in representing religion the map extract
iii) Measure the bearing of the peak of Kanjai hill form the peak of Kieru hill to the north east of the map extract.
 - b) Citing evidence from the map, explain:
 - (i) Two factors trading in the area covered by the map

- c) The rectangle (in the question paper) represents the area in the map extract bounded by Easting 35 and 40 and Northing 02 and 10. Use it to answer the questions that follow.



Identify the name the features marked;

- J-
- K-
- L-

- (i) Measure the length of the road they followed from the junction at grid reference 442128 to the junction at Gitoro, grid reference 478069. Give your answer in kilometers
- (ii) Apart from the forest, name two other types of natural vegetation they observed along the route
- (iii) State two methods they may have used to collect data while at the sawmill
- iv) State three follow-up activities they may have been involved in after the field study.

7

- a)
 - (i) What is a glacier?
 - (ii) Distinguish between valley glaciers and ice sheets
- b) The diagram (in the question paper) represents an upland glaciated landscape. Use it to answer question b (i) and (ii)

(i) Name the features Marked D, E and F

(ii) Describe how pyramidal peak is formed

- (c) Explain the significance of upland glaciated features to human activities

(d) Students from a school near Mt. Kenya were planning to carry out a field study of the glaciated features on the top of the mountain.

- (i) Give four reasons why it would be difficult for the students to undertake the field study on the glaciated features on the mountain
- (ii) Kenya to describe how the students would use a photograph of Mt. identify the glaciated features of the mountain.

- 8 a) the tables below represent rainfall and temperature of stations X and Y.
Use them to answer questions (a) and (b)

MONTHS	J	F	M	A	M	J	J	A	S	O	N	D
TEMPERATURE IN °C	30	31	31	31	30	29	29	28	28	29	29	30
RAINFALL IN MM	250	250	325	300	213	25	25	25	100	275	380	200

MONTHS	J	F	M	A	M	J	J	A	S	O	N	O
TEMPERATURE IN °C	21	20	20	17	15	13	12	13	15	16	18	20
RAINFALL IN MM	12	12	15	50	90	110	87	87	50	35	20	15

- a) (i) for each of the two stations calculate the mean annual temperature.
 X -
 Y -
- (ii) Calculate the annual rainfall for station Y
- (iii) On the graph paper provided, draw a bar graph to represent rainfall for station x. Use vertical scale of 1cm to represent 50mm
- b) Describe the climatic characteristics of station Y.
- c) (i) Describe how conventional rainfall in the lake region of Kenya
- 9 a) (i) Two process through which wind erodes the surface
 (ii) Three ways through which wind transports its load
- b) (i) How an oasis is formed
 (ii) How zeugens are formed
 You are supposed to carry out a field study of a semi-arid area in Kenya.
- c) (i) Two ways of preparing for the Field study
 (ii) Information that would be collected through observation of the arid area
 (iii) Measures to be recommended for controlling desertification.

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SECTION A

Answer all the questions in this section

1.
 - a) What is urbanization?
 - b) Give two differences in the function of New York and Nairobi cities.

New York	Nairobi
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2.
 - a) A part from draining swamps, state two other methods used in reclaiming land in Kenya.
 - b) State three benefits that resulted from reclamation of the Yata swamp
3.
 - a) Give three physical factors that favour coffee growing in Kenya highlands.
 - b) State two problems facing coffee farming in Kenya
4.
 - a) Why is it necessary to conserve water?
 - b) How does terracing help in water conservation?
5.
 - a) State three reasons why National parks have been established in Kenya.
 - b) A part from marine parks, give two other tourist attractions found at the coast of Kenya.
6. The table below shows the value of Kenyans imports and exports in 1999. Use it to answer questions(a)

IMPORTS		EXPORTS	
ITEM	VALUE IN K\$ '000'	ITEM	VALUE IN K\$ '000'
Food & Beverages	760,000	Food, beverage and tobacco	3270000
Industrial supplies(Non food)	3400000	Basic materials minerals fuels and lubricants	1100000
Fuel and Lubricants	2000000	Manufactured goods	1400000
Machinery and other capital requirement	1700000	Miscellaneous	30000
Transport equipment	1500000		
Miscellaneous	960,000		
Total	10,320,000	Total	5800000

- a) Use a radius of 5cm, draw a pie chart to represent data on exports shown on the table above. Show your calculations.
- b) Explain four measures, which Kenya may take to reduce the unfavourable balance of trade.
- c) Explain four benefits that Kenya derives from international trade.

7.
 - a) i) Give two primary sources of population on data.
 - ii) What information can be derived from a population pyramid?
 - b) Describe three ways in which the population of Kenya differs from that of Sweden.
 - c) Explain four reasons of rural migration in Kenya.
 - d) Explain three problems, which result from the high population growth rate in the East African countries.
8.
 - a) Name three agricultural non food manufacturing industries in Kenya.
 - b)i) Draw outline map of Kenya (map should have a frame / outline correct).
 - ii) On the outline map, mark and name two towns where motor vehicles are assembled.
 - c)i) Explain three causes of the decline in the textile industry in Kenya.
 - ii) Describe the measures that should be taken to control the following effects of industrialization.

Water pollution

Rural urban migration.

- d) Explain four factors, which have favoured the development of the electronics industry in Japan.
9. Use the map of North America (in question paper) to answer question (a)



- a) i) Name two methods of fishing used in the shaded areas,
- ii) Name two types of fish caught along the west coast of Canada
- iii) Explain how the following factors favour fishing in the shaded areas. Indented coastline.
- b) Explain four ways in which marine fisheries in Kenya can be conserved.
- c)
 - i) Give three methods used to preserve fish
 - ii) Explain three problems experience by fishermen while fishing in Lake Victoria.