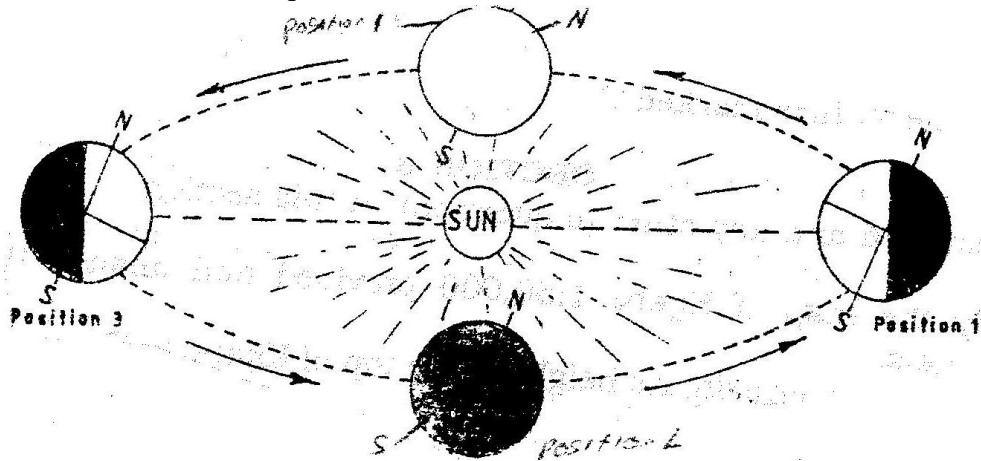


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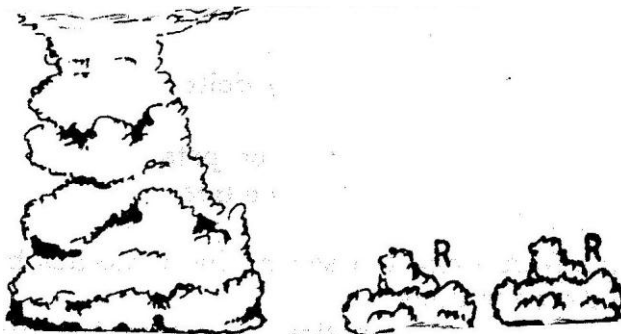
SECTION A

Answer all the questions in this section

1. (a) (i) Give the two dates in a year during which the number of hours of darkness is equal in both the north and south poles.
- (ii) Why do the lengths of days and nights vary from one part of the earth to another?
- (b) The diagram below shows the revolution of the earth around the sun. Use it to answer the questions that follow

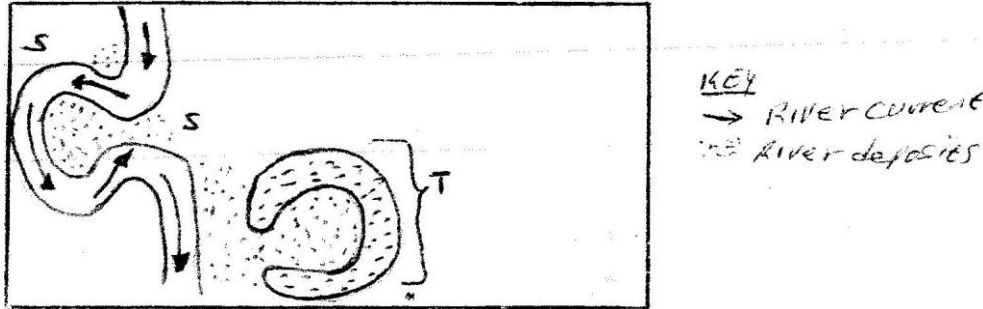


- (i) If the earth takes 366 days to make a complete revolution during a leap year, how long will it take to move from position 1 to position 4?
- (ii) What season is experienced in the southern hemisphere when the earth is in Position 1?
2. (a) State two conditions that are necessary for the formation of fog.
- (b) The diagram below shows some types of clouds. Use it to answer the questions that follow.



- (i) Name the clouds marked R
- (ii) Give two weather conditions associated with cumulonimbus clouds

3. (a) What is mechanical weathering?
(b) How is an exfoliation dome formed?
4. (a) State three climatic conditions experienced in the Sahara desert
(b) State three ways in which plants adapt to hot desert conditions
5. (a) What are natural levees?
(b) The diagrams below shows a section of a river. Use it to answer the questions that Follow.



- (i) At what stage development is this section of the river?
- (ii) Name the natural process that takes place at the part marked S
- (iii) Name the feature marked T.

SECTION B

Answer questions 6 and any other two questions in this section

6. (a) Study the map of Kijabe 1: 50,000 provided and answer the following questions:
 - (i) What is the appropriate height of the top of Kijabe hill?
 - (ii) Measure the length of Nairobi – Naivasha railway line from landhies (grid reference 257978) to the level crossing near Kijabe station (grid reference 308984). Give your answer in kilometers.
 - (iii) What relief feature on the map may have created problems in the construction of the railway line?
- (b) Describe the drainage of the area covered by the map
- (c) Explain how relief has influenced the distribution of settlement in the area covered by the map.
- (d) Citing evidence from the map, state four economic activities carried out in the area covered by the map.
- (e) Suppose you were a student in the school at Kinari (Kinale) and you plan to carry out a field study of Wakagwe forest,
 - (i) Design a working programme (schedule) you would use during the day of the study
 - (ii) Give three reasons why it would be necessary to sample part of the forest for the study
 - (iii) State two ways in which your findings would be useful to the local community.

7. (a)

- (i) What is a rock?
- (ii) Describe three ways through which sedimentary rocks are formed
 - Mechanically formed
 - Organically formed
 - Chemically formed
- (a) Describe two processes through which sedimentary rocks change into metamorphic rocks
- (b) Give an example of each of the following types of igneous rocks
 - (i) Plutonic rocks
 - (ii) Hypabyssal rocks
 - (iii) Volcanic rocks
- (e) Suppose you were to carry out a field study of rocks within the vicinity of your school
 - (i) Name three secondary sources of information you would use to prepare for the field study
 - (ii) State four activities you would carry during the field study
 - (iii) State three problems you are likely to experience during the field study

8.

- (a) Name two types of submerge coasts
- (b) Explain how the following factors determine the effectiveness of wave erosion along a coast
 - (i) Nature of the material transported by waves
 - (ii) Nature of the coastal rocks
- (c) With the aid of labeled diagrams, describe the process through which a stack is formed
- (d)
 - (i) State four conditions that favour the growth of coral
 - (ii) Explain three ways in which coral contributes to the economic development of Kenya.

9.

- (a) Name three components of soil
- (b) Explain how the following factors influence the formation of soil
 - (i) Climate
 - (ii) Topography
- (c)
 - (i) State two economic uses of soil
 - (ii) Explain four ways in which human activities contribute to soil erosion
- (d) Describe how the following types of erosion occur
 - (i) Sheet erosion
 - (ii) Gully erosion

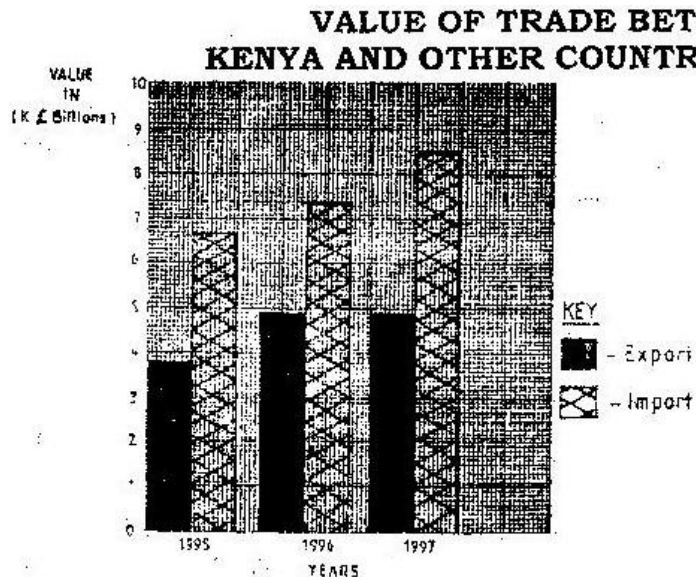
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QUESTIONS

SECTION A

Answer all the questions in this section

1. The bar graphs show the value of trade between Kenya and other countries for the year 1995, 1996 and 1997. Use it to answer question (a)



Scale 1cm rep 1 billion K

SOURCE OF DATA: STATISTICAL ABSTRACT (K) 1998

- a) (i) Name the type of bar shown above
(ii) Calculate the cumulative differences in value between Kenya and other countries
- (b) Give two reasons why there is an imbalance of trade between Kenya and other countries
2. (a) Name two cash crops grown in plantations in the highlands east of the valley
(b) Give three physical conditions that are necessary for the growth of cloves
3. (a) State three physical problems experienced by farms at Mwea- Tembere irrigation
(b) Outline methods that were used to rehabilitate land in the Tennessee valley in the United States of America (USA)
4. (a) Name two districts in the rift valley province of Kenya where Merino sheep are reared
(b) Compare sheep farming between Kenya and Australia
5. Give three effects of liberalization of the oil industry in Kenya.

SECTION B

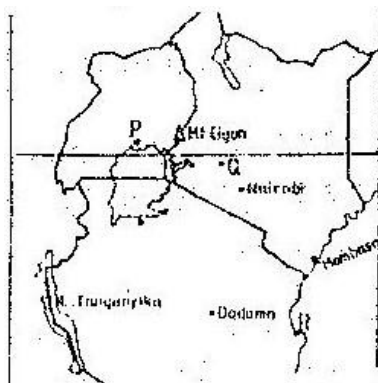
Answer question 6 and any other questions from this section

6. Study the photograph below and use it to answer questions (a)



- (a)
 - (i) Name the type of photograph shown
 - (ii) Draw a rectangle measuring 15cm to 10cm to represent the area of photograph
 - (iii) On the rectangle draw a sketch of the photograph and label three physical features
 - (iv) Explain two physical conditions that would discourage setting up of a game park in the area shown on the photograph
- (b) Apart from national parks, outline four other ways in which wildlife is conserved in Kenya
- (c) Give four reasons why domestic tourism is being encouraged in Kenya
- (d) Explain four factors which Switzerland receive more tourists than Kenya

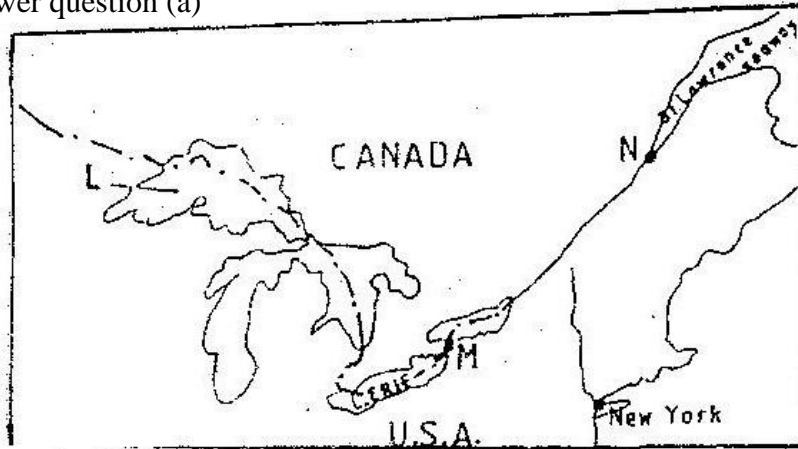
7. Use the map of East Africa below to answer questions



- (a) Name the towns marked P, Q and R
- (b)
 - (i) Explain three physical factors that influence the location of Mombasa
 - (ii) Explain four problems that Mombasa experiences as it grows

- (c) Compare the ports of Mombasa and Rotterdam under the following subheadings
- (i) Transport links to the interior
 - (ii) Mechanization of the ports
 - (iii) Size of the ports
 - (iv) Climate experienced at the ports

8. Below a sketch of the map of the great lakes- St. Lawrence Seaway. Use it to answer question (a)



- (a) Name
- (i) The lake marked L
 - (ii) The waterfall marked M
 - (iii) The port marked N
- (b) Explain three ways in which the great lakes St. Lawrence sea way has contributed to the economy of Canada and the United States of America (U.S.A)
- (c) Explain four factors that hinder the development of railway links among Africa countries
- (d)
- (i) State two recent development that have taken place in Kenya to improve Communication of information
 - (ii) Explain three problems facing telephone as a means of communication in Kenya
- 9.
- (a)
 - (i) Apart from water and air pollution, name two other types of pollution
 - (ii) Identify three ways through which water is polluted
 - (iii) Explain three effects of air pollution on the environment
 - (b)
 - (i) Explain three factors that lead to frequent flooding in the lake region of Kenya
 - (ii) Explain two ways through which floods are controlled in the lake region of Kenya
 - (c) State four effects of wind as an environmental hazard in Kenya