

23.8 GEOGRAPHY

23.8.1 Geography Paper 1 (312/1)

312/1
GEOGRAPHY
Paper 1
Oct./Nov. 2007
2 $\frac{3}{4}$ hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education
GEOGRAPHY
Paper 1
2 $\frac{3}{4}$ hours

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. All answers must be written in the answer booklet provided.

This paper consists of 6 printed pages

Candidates should check the question paper to ascertain that all the pages are printed as indicated and no questions are missing.

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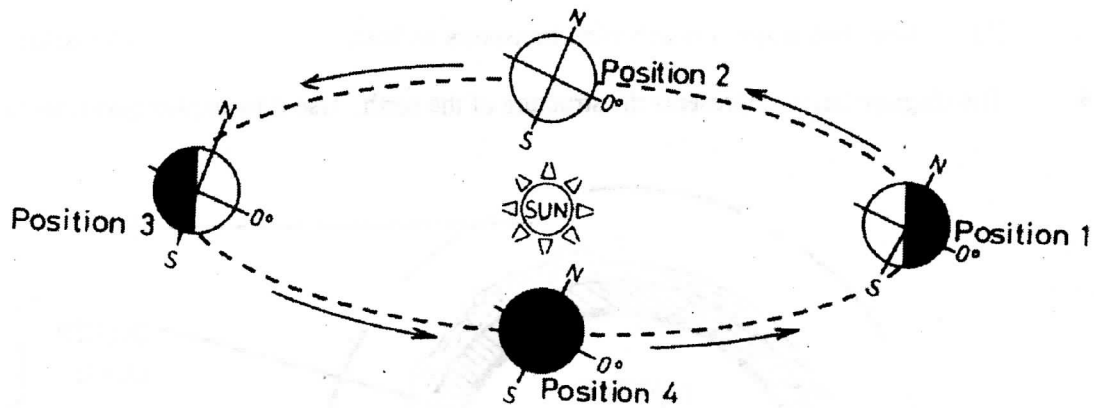
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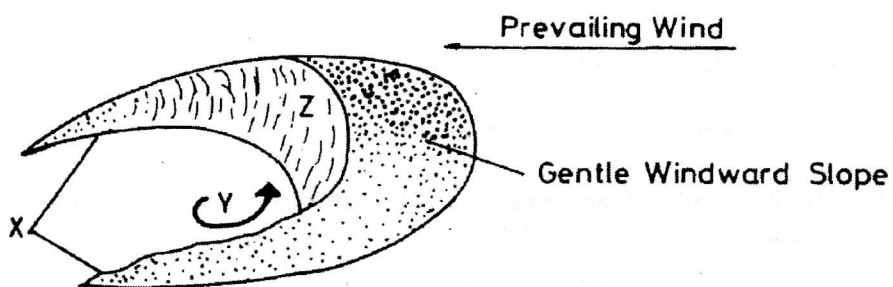
SECTION A

Answer all the questions in this section.

- 1 (a) State **two** effects of the rotation of the earth. (2 marks)
- (b) Study the diagram below and answer the questions that follow.

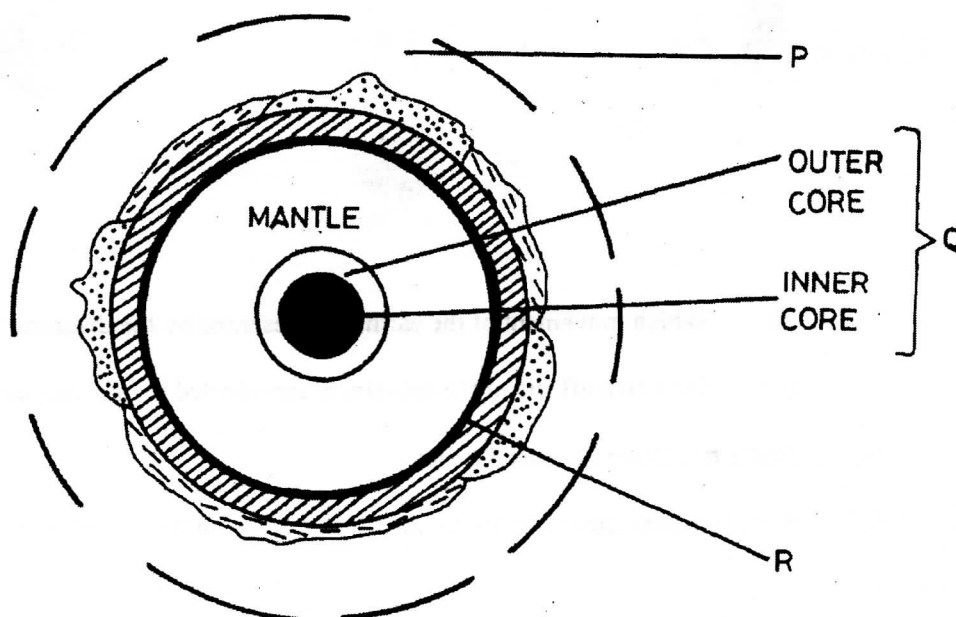


- (i) Which movement of the earth is represented by the diagram? (1 mark)
 - (ii) Give **two** effects of the movement represented by the diagram. (2 marks)
- 2 (a) Name **two** types of coastal deltas. (2 marks)
 - (b) State **two** conditions that lead to deposition of silt at the mouth of a river. (2 marks)
- 3 The diagram below represents a barchan. Use it to answer question (a).



- (a) Name
- (i) the feature marked X. (1 mark)
 - (ii) the air current marked Y. (1 mark)
 - (iii) the slope marked Z. (1 mark)
- (b) Give **two** ways in which wind transports its load. (2 marks)

4 The diagram below represents the structure of the earth. Use it to answer questions (a).



- (a) Name
- (i) the parts marked P and Q. (2 marks)
 - (ii) the discontinuity marked R. (1 mark)
- (b) State **three** characteristics of the mantle. (3 marks)
- 5 (a) Name the **two** major types of earth movements that occur within the earth's crust. (2 marks)
- (b) Describe the origin of the continents according to the Theory of Continental Drift. (3 marks)

SECTION B

Answer question 6 and any other two questions in this section.

- 6 Study the map of Taita Hills (1:50,000) sheet 189/4 provided and answer the following questions.
- (a) (i) What is the bearing of the peak of Mwatunga hill in grid square 3214 from the water tank in grid square 2619? (2 marks)
- (ii) What is the length in Kilometres of the section of the Mwatate-Voi railway line in the south-eastern part of the map? (2 marks)
- (b) Draw a rectangle measuring 16 cm by 12 cm to represent the area enclosed by the Eastings 24 and 40 and Northings 20 and 30. (1 mark)
- On the rectangle, mark and name the following features:
- Mgange hills (1 mark)
 - a rock out crop (1 mark)
 - All weather road, bound surface (1 mark)
 - River Ruhia (1 mark)
 - Ronge forest (1 mark)
- (c) Using evidence from the map, explain three factors that may have favoured the establishment of the Teita Sisal Estates in the southern part of the area covered by the map. (6 marks)
- (d) (i) Describe the distribution of settlements in the area covered by the map. (5 marks)
- (ii) Citing evidence from the map, give two economic activities carried out in the area covered by the map other than sisal farming. (4 marks)
- 7 (a) Describe the following characteristics of minerals:
- (i) colour (2 marks)
 - (ii) cleavage (2 marks)
 - (iii) hardness. (2 marks)
- (b) (i) Give two types of igneous rocks. (2 marks)
- (ii) Explain three conditions necessary for the growth of coral polyps. (6 marks)

(c) State **four** uses of rocks. (4 marks)

(d) You are planning to carry out a field study on the rocks within your school environment.

(i) Give **two** secondary sources of information you would use to prepare for the field study. (2 marks)

(ii) State why you would need the following items during the field study:

- a fork jembe (1 mark)

- a polythene bag (1 mark)

(iii) Suppose during the field study you collected marble, sandstone and granite, classify each of these samples according to its mode of formation. (3 marks)

8 (a) (i) What is climate? (2 marks)

(ii) Explain **two** effects of climate change on the physical environment. (4 marks)

(b) The table below shows rainfall and temperature figures of a station in Africa.

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temperature in °C	24	24	23	22	19	17	17	18	19	20	22	23
Rainfall in mm	109	122	130	76	52	34	28	38	70	108	121	120

(i) On the graph paper provided, draw a bar graph to represent the rainfall figures. (Use a vertical scale of 1cm to represent 10mm). (5 marks)

(ii) Describe the rainfall pattern of the station. (4 marks)

(iii) Calculate the average monthly temperature for the station. (Show your calculations). (2 marks)

(c) You are supposed to carry out a field study on the weather within your school compound.

(i) Describe how you would use the following instruments during the field study:

- the hygrometer (3 marks)

- the rain gauge (3 marks)

- (ii) State **two** ways in which the information collected during the field study would be useful to the local community. (2 marks)
- 9 (a) Give **three** processes that lead to formation of lakes. (3 marks)
- (b) (i) Describe how Lake Victoria was formed. (4 marks)
- (ii) Explain how Lake Victoria influences the climate of the surrounding areas. (6 marks)
- (c) (i) Apart from Lake Magadi, name **two** other lakes within the rift valley in Kenya that have a high level of salinity. (2 marks)
- (ii) Explain **three** causes of salinity in Lake Magadi. (6 marks)
- (d) Give **four** economic uses of lakes other than mining. (4 marks)
- 10 (a) (i) What is the difference between weathering and mass wasting? (2 marks)
- (ii) Apart from plants, give **three** other factors that influence the rate of weathering. (3 marks)
- (iii) Explain **two** ways in which plants cause weathering. (4 marks)
- (b) (i) List **two** types of mass wasting other than soil creep. (2 marks)
- (ii) Explain **three** factors that cause soil creep. (6 marks)
- (c) Explain **four** effects of mass wasting on the environment. (8 marks)

23.8.2 Geography Paper 2 (312/2)

312/2
GEOGRAPHY
Paper 2
Oct./Nov. 2007
2½ hours

THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education
GEOGRAPHY
Paper 2
2½ hours

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.
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SECTION A

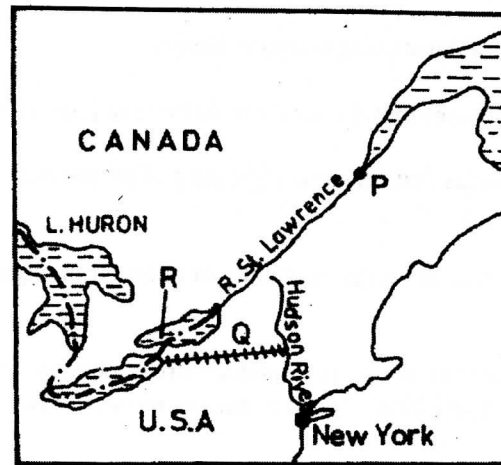
Answer all the questions in this section.

- 1 (a) Name **two** exotic breeds of dairy cattle reared in Kenya. (2 marks)
- (b) State **three** physical conditions that favour dairy farming in Denmark. (3 marks)
- 2 (a) State **two** climatic conditions that favour the growing of oil palm in Nigeria. (2 marks)
- (b) Give **two** problems experienced in the marketing of palm oil in Nigeria. (2 marks)
- 3 The table below shows petroleum production in thousand barrels per day for countries in the Middle East in **April 2006**. Use it to answer question (a).

Country	Production in '000' barrels
Iran	3800
Kuwait	2550
Qatar	800
Saudi Arabia	9600
United Arab Emirates	2500
Iraq	1900

- (a) (i) What is the difference in production between the highest and the lowest producer? (1 mark)
- (ii) What is the total amount of petroleum produced in April 2006 in the region? (1 mark)
- (iii) Calculate the average daily petroleum production for Kuwait for April 2006. (1 mark)
- (b) State **three** conditions that are necessary for the formation of petroleum. (3 marks)

- 4 Below is a sketch map showing part of the Great Lakes and St. Lawrence Sea Way. Use it to answer question (a).



KEY
- - - - - International boundary

- (a) Name
- (i) the port marked P. (1 mark)
 - (ii) the canal marked Q. (1 mark)
 - (iii) the lake marked R. (1 mark)
- (b) State three ways in which the Great Lakes and St. Lawrence Sea Way has contributed to the growth of industries in the region. (3 marks)
- 5 (a) Apart from HIV and AIDS, give two other causes of mortality in East Africa. (2 marks)
- (b) State two ways in which the spread of HIV and AIDS in Kenya may slow down economic development. (2 marks)

312/2
GEOGRAPHY
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Photograph for Question 6 (a) and (b)



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SECTION B

Answer question 6 and any other two questions in this section.

- 6** The photograph provided shows a tea growing area in Kenya. Use it to answer questions (a) and (b).
- (a)
 - (i) What evidence in the photograph shows that this is a ground general-view type of photograph? (2 marks)
 - (ii) Draw a rectangle measuring 15cm by 10cm to represent the area of the photograph. On it sketch and label the main features shown on the photograph. (5 marks)
 - (iii) Identify two features from the photograph that show that this is a small scale tea farm. (2 marks)
 - (b) Describe the stages involved in the cultivation of tea from land preparation to the stage shown on the photograph. (6 marks)
 - (c)
 - (i) Name two districts in the Eastern Province where tea is grown. (2 marks)
 - (ii) Explain four ways in which the Kenya Tea Development Agency (KTDA) assists small scale tea farmers in Kenya. (8 marks)
- 7**
- (a) Name three agricultural food processing industries in Kenya. (3 marks)
 - (b) Explain how the following factors have favoured the development of industries in Thika town:
 - (i) proximity to Nairobi; (2 marks)
 - (ii) availability of water; (2 marks)
 - (iii) the hinterland. (2 marks)
 - (c) Explain four ways in which Kenya has benefited from industrialization. (8 marks)
 - (d)
 - (i) Name two towns in Kenya where motor-vehicle assembling plants are located. (2 marks)
 - (ii) Explain three factors which have favoured the development of car manufacturing industry in Japan. (6 marks)
- 8**
- (a)
 - (i) What is forestry? (2 marks)
 - (ii) Explain three factors that favour the growth of natural forests on the slopes of Mt. Kenya. (6 marks)
 - (iii) State five factors that have led to the reduction of the area under forest on the slopes of Mt. Kenya. (5 marks)

- (b) Explain **four** measures that the government of Kenya is taking to conserve forests in the country. (8 marks)
- (c) Give the differences in the exploitation of softwood forests in Kenya and Canada under the following sub-headings:
- (i) period of harvesting; (2 marks)
 - (ii) Transportation. (2 marks)
- 9 (a) (i) Name **three** international airports in Kenya. (3 marks)
- (ii) Give **four** advantages of air transport over road transport. (4 marks)
- (b) Explain **four** measures that should be taken to improve road transport in Kenya. (8 marks)
- (c) Explain why there are few rail links among African countries. (6 marks)
- (d) Give **four** reasons why there is limited use of river transport in Africa. (4 marks)
- 10 (a) (i) State **two** causes of water pollution. (2 marks)
- (ii) Give **two** effects of water pollution on the environment. (2 marks)
- (b) Explain **four** methods used to control floods on rivers in Kenya. (8 marks)
- (c) Explain how the following soil conservation methods improve the quality of soil:
- (i) contour farming; (2 marks)
 - (ii) Mulching; (2 marks)
 - (iii) Crop rotation. (2 marks)
- (d) You intend to carry out a field study on pollution in the local open air market.
- (i) State **three** reasons why it would be necessary for you to visit the market before the actual field study. (3 marks)
 - (ii) Give **two** methods that you would use to collect information on pollution. (2 marks)
 - (iii) Give **two** follow-up activities you would carry out after the field study. (2 marks)