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312/1
GEOGRAPH Y
Paper 1
FEBRUARY SERIES 2019
2¾ hours

INSTRUCTIONS TO CANDIDATES:

- *This paper has **two** sections **A** and **B***
- *Answer **All** questions in Section **A**, In section **B** answer question 6 and any other **two** questions.*
- *All answers must be written in the answer sheets provided.*
- *This paper consists of 4 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.*

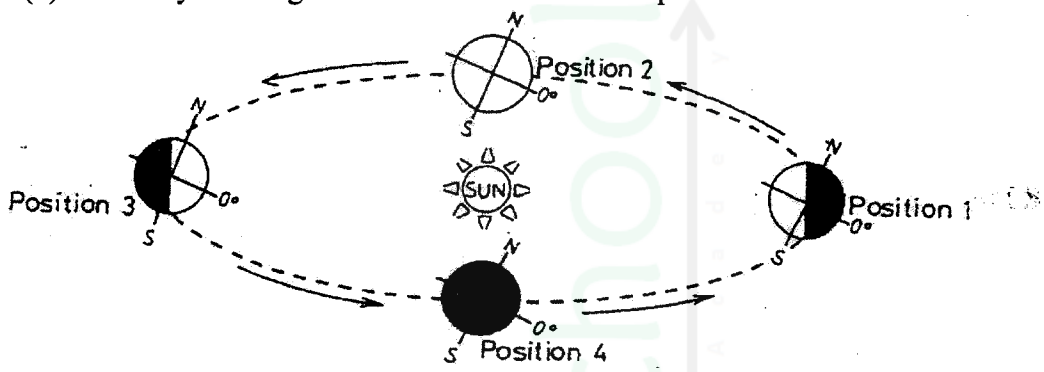
FOR EXAMINER'S USE ONLY

SECTION A	SECTION B					TOTAL
1-5	6	7	8	9	10	

K.C.S.E 2019 GEOGRAPHY PAPER 1 FEBRUARY SERIES
SECTION A
Answer all the questions in this section

1. (a) State two effects of the rotation of the earth (2 mks)

(b) Study the diagram below and answer the questions that follow



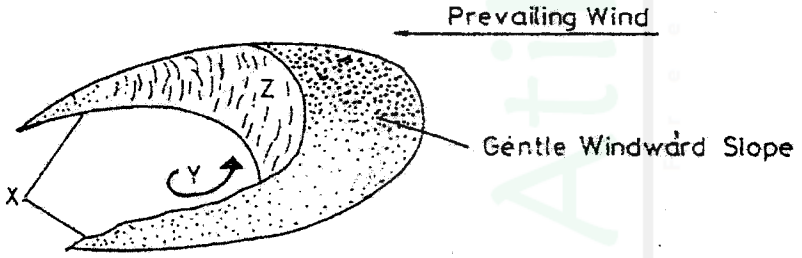
(i) Which movement of the earth is represented by the diagram? (1 mk)

(ii) Give two effects of the movement represented by the diagram (2 mks)

2. (a) Name two types of the coastal deltas (2 mks)

(b) State two conditions that lead to deposition of silt at the mouth of a river (2 mks)

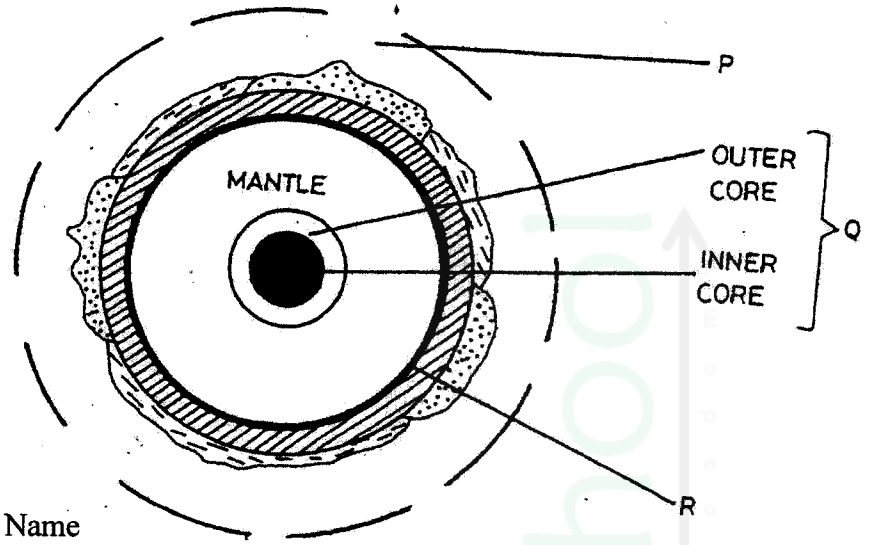
3. The diagram below represents a barchan. Use it to answer questions (a)



(a) Name
(i) the feature e marked X (1mk)
(ii) The air current marked Y (1mk)
(iii) The slope marked Z (1 mk)

(b) Give two ways in which wind transports its load (2mks)

4. The diagram below represents the structure of the earth. Use it to answer question



(a) Name
(i) The parts marked P and Q (2mks)
(ii) The discontinuity marked R (1mk)

(b) State three characteristics of the mantle (3mks)

5. (a) Name the two types of earth movements that occur within the earth's crust. (1mks)

(b) Describe the origin of the continents according to the Theory of continental Drift

SECTION B

Answer questions 6 and any other two questions in this following

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? (2mks)

(ii) What is the length in kilometers of the section of the Mwatate – Voi railway line in the south – eastern part of the map? (2mks)

(b) Draw a rectangle measuring 16cm by 12 cm to represents the area enclosed by the Eastings 24 and 40 and Northings 20 and 30 (1mk)

On the rectangle, mark and name the following features:

- Mgange hills (1 mk)
- A rock out crop (1 mk)
- All weather road, bound surface (1 mk)
- River Ruhia (1 mk)
- Ronge forest (1 mk)

(c) Using evidence from the map, explain three factors that have favoured the establishment of the Teita sisal Estates in the Southern part of the area covered by the map (6mks)

(d) (i) Describe the distribution of settlement in the area covered by the map (5mks)

(ii) Citing evidence from the map, give two economic activities carried out in the area covered by the map other than sisal farming (4mks)

7. (a) Describe the following characteristics of minerals
   (i) Colour (2mks)
   (ii) Cleavage (2mks)
   (iii) Hardness (2mks)

   (b) (i) Give two types of igneous rocks (2mks)
   (ii) Explain three conditions necessary fro the growth of coral polyps (6mks)

   (c) State four uses of rocks (4mks)

   (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 (2mks)
   (ii) State why you would need the following items during the field study
   - A fork jembe (1mk)
   - A polythene bag (1mk)

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

8. (a) (i) What is climate? (2mks)
   (ii) Explain two effects of climate change on the physical environment (4mks)

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

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp in ^0C	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	126

   (i) On the graph paper provided, draw a bar graph to represent the rainfall figure. (Use a vertical scale of 1 cm to represent 10mm) (5mks)
   (ii) Describe the rainfall pattern of the station (4mks)
   (iii) Calculate the average monthly temperature for the station (Show your calculations) (2mks)

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

(i) Describe how you would use the following instruments during the field study
- The hygrometer (3 mks)
- The rain gauge (3 mks)

(ii) State two ways in which the information collected during the field study would be useful to the local community (2 mks)

9. (a) Give three processes that lead to formation of lakes (3 mks)
(b) (i) Describe how lake Victoria was formed (4 mks)

(ii) Explain how lake Victoria influences the climate of the surrounding areas
(6 mks)

(c) (i) Apart from Lake Magadi name two other lakes within the rift valley in Kenya that have a high level of salinity (2 mks)
(ii) Explain three causes of salinity in Lake Magadi (6 mks)

(d) Give four economic uses of lakes other than mining (4 mks)

10. (a) (i) What is the difference between weathering and mass wasting?
(ii) Apart from plants, give three other factors that influence the rate of weathering
(iii) Explain two ways in which plants cause weathering(4mks)

(b) (i) List two types of mass wasting other than soil creep (2mks)
(ii) Explain three factors that cause soil creep. (6mks)

(c) Explain four effects of mass wasting on the environment. (8mks)