K.C.S.E. GEOGRAPHY PAPER 231/1 2007

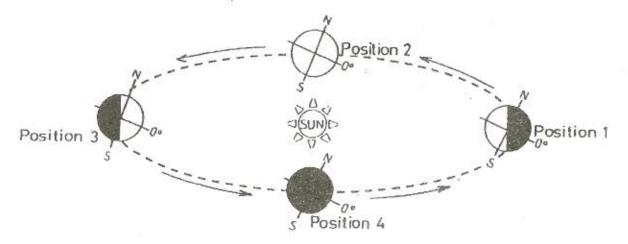
SECTION A

Answer all the questions in this section.

(a) State two effects of the rotation of the earth.

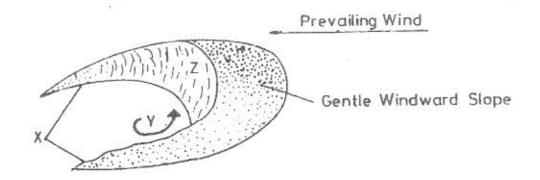
(2 marks)

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



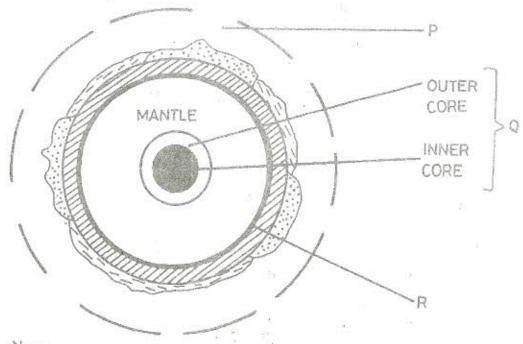
- (i) Which movement of the earth is represented by the diagram? (1 mark)
- (ii) Give two effects of the movement represented by the diagram. (2 marks)
- (a) Name two types of coastal deltas. (2 marks)
- (b) State two conditions that lead to deposition of silt at the mouth of a river. (2 marks)

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 V. (1 mark)
 - (iii) the slope marked Z. (1 mark)
- (b) Give two ways in which wind transports its load. (2 marks)

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)
- (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.

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 Mwats	ate-Voi						
		railway line in the south-eastern part of the map?	(2 marks						
		22	154						
(h)	Draw	a rectangle measuring 16 cm by 12 cm to represent the area e	nclosed by						
	the Eastings 24 and 40 and Northings 20 and 30.								
	On th	e rectangle, mark and name the following features:							
		Maria Emi	(1le)						
		Mgange hills	(1 mark)						
		a rock out crop	(1 mark)						
	20	All weather road, bound surface	(1 mark)						
	-	River Ruhia	(1 mark)						
	8	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								
		red by the map.	(6 marks						
(d)	(i) Describe the distribution of settlements in the area covered by the map.								
36574	2015		(5 marks						
	(ii)	Citing evidence from the map, give two economic activities	carried						
	3000	out in the area covered by the map other than sisal farming.							
(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 p	oolyps.						
	24-00	1999 (* • 1999 ± 46 + 400 ± 1990 ± 1	(6 marks						

(c)	State	State four uses of rocks.											(4 mark
(d)	You are planning to carry out a field study on the rocks within you environment.								your:	schou	I		
	(i)	Give two secondary sources of information you would use to								pren:	are		
	10.8284	for the field study.							P. S.	(2 mark			
	(ii)	(ii) State why you would need the following items during the field								ld stu	iy:		
	- a fork jembe												(1 mark
			a poly	T									(1 mark
	(iii)		se durir , classi										l mation . (3 mark:
(a)	(i)	What is climate?									(2 marks		
	(ii)	Explain two effects of climate change on the physical environment. (4 mar)										(4 marks	
(b)	The ta	ne table below shows rainfall and temperature figures of a station in Africa.											ca.
3-6											-		
			TE	M	TA	TM	T	Ti	ΙΔ	2	10	N	15
Month	iture in ^o	J	F 24	M 23	A 22	M 19	J 17	J 17	A 18	S 19	20	N 22	D 23
	The second secon		24	M 23 130	A 22 76	M 19 52	J 17 34	J 17 28	A 18 38	S 19 70	O 20 108	N 22 121	D 23 120
Month Tempera	The second secon	'C 24	24 122 graph j	23 130 paper	76 provid	19 52 ded, d	17 34 raw a	17 28 bar gr	18 38 aph to	70 repre	20 108 sent th	22 121 e rain	120
Month Tempera	in ınm	C 24 109 On the	24 122 graph (Use	23 130 paper a vert	76 providical so	19 52 ded, deale of	17 34 raw a f 1cm	17 28 bar gr to rep	18 38 aph to	70 repre	20 108 sent th	121 le rain	23 120

- Describe how you would use the following instruments during the field study:
 - the hygrometer (3 marks)
 the rain gauge (3 marks)

Turn over

		(ii)	State two ways in which the information collected during the field	study
			would be useful to the local community.	(2 marks)
1	(a)	Give 1	(3 marks)	
	(b)	(i)	Describe how Lake Victoria was formed.	(4 marks)
		(ii)	Explain how Lake Victoria influences the climate of the surroundi	ng areas. (6 marks)
	(c)	valley		
	107.50	(i)	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)	Expla	ain four effects of mass wasting on the environment.	(8 marks)