Answer ALL the questions in this section.

1. a) Differentiate between the processes of the formation of plutonic rocks and volcanic rocks.

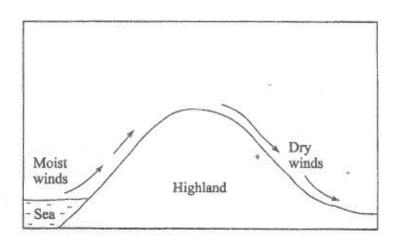
(2 marks)

b) For each of the following sedimentary rocks, name the resultant rock that forms after metaporphism:

i) Sandstone (1 mark)

- (1 mark)
- (1 mark)

Use the diagram below to answer the question that follows.



Outline the process through which the moist winds shown go through to eventually become dry winds.

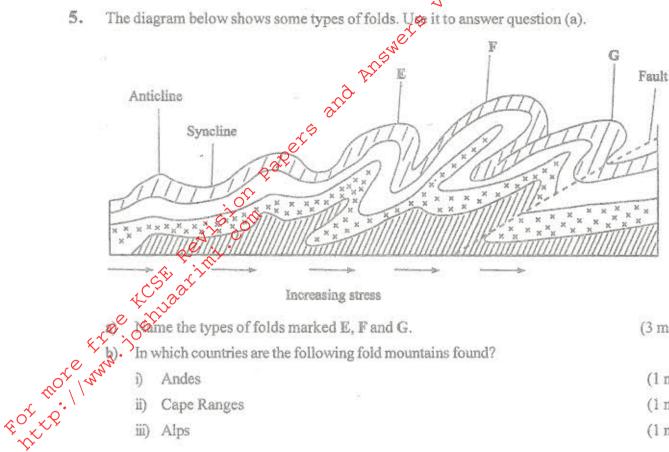
(5 marks)

- a) What is a line of longitude? (2 marks)
 - b) What is the local time at Alexandria 30°E when the local time at Malindi 40°E is 12.00noon?

(2 marks)

- 4. a) Outline the steps followed when measuring humidity using a hygrometer. (3 marks)
 - b) Give two factors that influence relative humidity. (2 marks)

5.



(3 marks)

(1 mark)

(1 mark)

(1 mark)

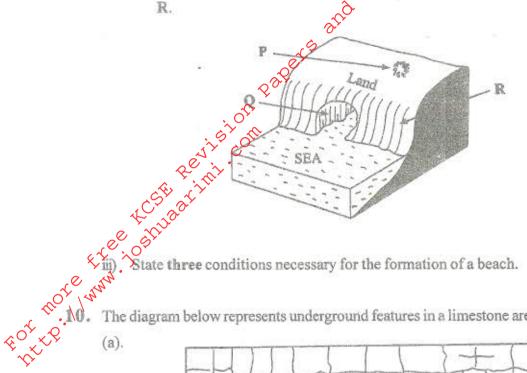
SECTION B

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

- Study the map of Belgut 1:50,000 (sheet 117/3) provided and answer the following questions. 6.
 - Name the three districts crossed by the all-weather road (bound surface) in the north-(3 marks) western part of the map extract.
 - ii) Using the marginal information, give the magnetic variation of the area when the map extract was drawn.
 - iii) Measure the shortest distance along the loose surface road from the junction at Marumbasi (grid reference 286548) to the school at Chebirbei (grid reference 344 518). Give your (2 marks) answer in kilometres.
 - iv) What is the approximate height of the papyrus swamp to the north-east of Kabianga Farm Institute (grid square 3750) (2 marks)
 - b) Describe the characteristics of the long profile of river Yurith. (6 marks)
 - Describe the relief of the area covered by the map. (4 marks)
 - Citing evidence from the map, explain three factors that favour the growing of tea in Belgut (6 marks) area.

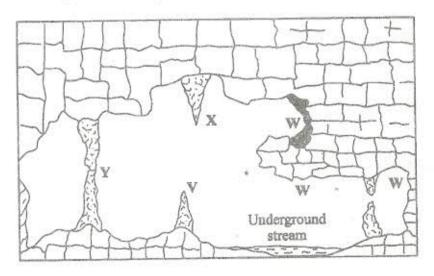
7.	The diagram below shows a hydrological cycle. Sun Sun Sun Sun Sun Sun Sun Su		
	25	aget / / / /	sation Level
FOX MORE	K. Z.	Rain Forest Run-off S	M
\$°°XX	a)	i) What do the arrows labelled K, L and M on the cycle represent?	(3 marks)
	5	ii) Explain three factors that influence the occurence of surface run-off.	(6 marks)
	b)	i) What is mass wasting?	(2 marks)
	97	ii) Give two processes of slow mass movement.	(2 marks)
		iii) State two physical conditions that may influence landslides.	(2 marks)
	c)	Describe the following processes of mass wasting:	(a mains)
		i) rock fall;	(2 marks)
		ii) subsidence;	(2 marks)
		iii) mudflows.	(2 marks)
	d)	Explain the effect of mass wasting on the following:	(=)
	10	i) Tourism;	(2 marks)
		ii) Soil fertility	(2 marks)
8.	a)	i) Name three types of faults.	(3 marks)
		ii) Apart from compressional forces, explain two other processes that may c	
			(4 marks)
	b)	With the aid of diagrams, describe how compressional forces may have led to	the formation
		of the Great Rift Valley.	(8 marks)
	c)	Explain five ways in which faulting is of significance to human activities.	(10 marks)
9.	a)	i) Apart from Bird's Foot delta, name two other types of coastal deltas.	(2 marks)
		ii) Draw a diagram to show a Bird's Foot delta.	(3 marks)
			(Sindiks)

- Explain four factors that influence the development of coasts. (8 marks)
- Differentiate between a barrier reef and fringing reef? (2 marks)
 - The diagram below represents some coastal features. Name the feature marked P, Q and (3 marks)



(3 marks)

The diagram below represents underground features in a limestone area. Use it to answer question



- (3 marks) i) Name the features marked X, V and W.
 - (6 marks) Describe how the feature marked Y is formed.
- (2 marks) What is an artesian basin?
 - Explain three factors which influence the formation of features in limestone areas. (6 marks)
- You are supposed to carry out a field study of an area eroded by water.
 - Give three reasons why you would need a map of the area of study. (3 marks)
 - ii) Name two erosional features you are likely to identify during the field study. (2 marks)
 - iii) State three recommendations that you would make from your study to assist the local (3 marks) community to rehabilitate the eroded area.