3.10 GEOGRAPHY (312)

3.10.1 Geography Paper 1 (312/1)

SECTION A

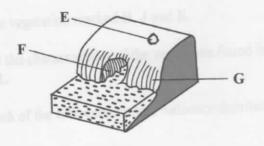
Answer all the questions in this section.

1	(a)	Define the term <i>environment</i> .	(2 marks)
1.	(b)	Name two divisions of physical Geography.	(2 marks)
2.	(a)	Give three characteristics of comets.	(3 marks)
	(b)	State three proofs that show the shape of the earth is spherical.	(3 marks)
3.	(a)	Give two types of igneous rocks.	(2 marks)
	(b)		(3 marks)

4. The table below shows the rainfall and temperature data for town Y. Use it to answer (a).

	1	E	M	A	M	J	J	A	S	0	N	D
Month	J	F	TAY		4.4		12	12	15	16	18	20
Temperature (°C)	21	21	20	18	15	14	13	13	15	10	10	-
	24	25	30	74	17	143	131	126	70	55	31	27
Rainfall (mm)	24 25						111					

	(b)	The	diagram below shows some coastal features. Name the features marked E,	(3 marks)	
5.	(a)		erentiate between ocean and sea.	(2 marks)	
	(b)	State three climatic conditions experienced in the hot deserts.			
		(ii)	Calculate the rainfall totals for town Y.	(1 mark) (3 marks)	
	(a)	(i)	What is the mean annual range of temperature?	(1 mark)	



SECTION B

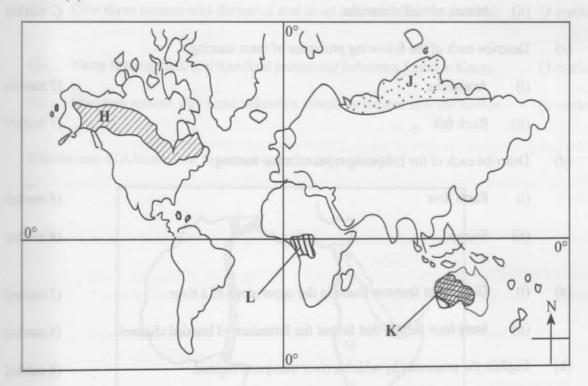
Answer question 6 and any other two questions from this section.

6.	Study	the ma	ap of Kijabe 1:50,000 (sheet 134/3) provided and answer the following of	questions.
	(a)	(i)	Convert the scale of the map extract into a statement scale.	(2 marks)
		(ii)	What is the bearing of the pump house at grid square 3893 from the trigonometrical station at Mweri?	(2 marks)
		(iii)	Calculate the area of the part of the forest to the east of easting 40 and northing 97. Give your answer in square kilometres.	south of (2 marks)
	(b)	(i)	Apart from forest, give three types of natural vegetation found in the covered by the map.	area (3 marks)
		(ii)	Identify the three river drainage patterns found in the area covered by	the map. (3 marks)
	(c)	(i)	Using a vertical scale of 1 cm to represent 100 metres, draw a cross se the water tank on grid square 2592 to the peak of Kijabe hill on grid so	ction from quare 2699. (4 marks)
			On it, mark and label the following:	
			I. All weather road-bound surface II. Railway line III. Steep slope.	(1 mark) (1 mark) (1 mark)
		(ii)	Calculate the vertical exaggeration of the cross section.	(2 marks)
	(d)	Citin the n	g evidence from the map, identify two economic activities in the area conap.	overed by (4 marks)

- 7. (a) (i) Define the term *vulcanicity*. (2 marks)
 - (ii) Name the three stages in the life cycle of a volcano. (3 marks)
 - (b) Describe how each of the following volcanic features are formed:
 - (i) Lava plateau (4 marks)
 - (ii) Geyser (4 marks)
 - (iii) Caldera. (4 marks)
 - (c) Explain four positive ways in which volcanic features influence human activities.

(8 marks)

8. The map below shows some vegetation regions of the world. Use it to answer question a(i) and a(ii).



- (a) (i) Name the vegetation marked H, J and K. (3 marks
 - (ii) Describe the characteristics of the vegetation found in the area shaded and marked L. (6 marks)
- (b) Explain how each of the following factors influence distribution of vegetation:
 - (i) Rainfall (2 marks)
 - (ii) Soils. (2 marks)

	(c)	Stat	e five uses of Savanna vegetation.	(5 marks)						
	(d)	You	intend to carry out a field study on vegetation within the local environment	ent.						
		(i)	State three objectives you would formulate for the study.	(3 marks)						
		(ii)	Give four reasons why it is important to have a work schedule.	(4 marks)						
9.	(a)	(i)	Apart from biological weathering, list two other types of weathering.	(2 marks)						
		(ii)	Explain ways in which plants cause weathering of rocks.	(6 marks)						
	(b)	Expl	ain how each of the following physical factors influence mass wasting:							
		(i)	Earth movement	(2 marks)						
		(ii)	Nature of rock materials.	(2 marks)						
	(c)	Desc	Describe each of the following processes of mass wasting:							
		(i)	Avalanche	(2 marks)						
		(ii)	Rock fall.	(3 marks)						
	(d)	Desc	ribe each of the following types of mass wasting:							
		(i)	Earth flow	(4 marks)						
		(ii)	Slump.	(4 marks)						
10.	(a)	(i)	Give three features found in the upper stage of a river.	(3 marks)						
		(ii)	State four factors that favour the formation of braided channels.	(4 marks)						
	(b)	Explain the processes by which a river transports its load.								
	(c)	With	the aid of well labelled diagrams, describe how a river capture occurs.	(7 marks)						
	(d)	State	three negative effects of rivers to human environment.	(3 marks)						