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312/1 GEOGRAPHY Paper 1 JANUARY 2021 Time: 2<sup>3</sup>/<sub>4</sub> hours

# KASSU-JET JOINT EXAMINATION

## Kenya Certificate of Secondary Education 312/1 Paper 1 GEOGRAPHY

#### **INSTRUCTIONS TO STUDENTS**

- This paper has **two** sections **A** and **B**
- Answer **ALL** the questions in section **A**. In section **B** answer questions **6** and any other **TWO** questions.

#### **SECTION A**

Answer all the questions in this section.

1.	(a)	Differentiate between a Star and a Natural satellite.	(2 marks)
	(b)	State <i>three</i> weaknesses of the Passing Star Theory.	(3 marks)
2.	(a)	Give <i>three</i> ways in which igneous rocks can be classified.	(3 marks)
	(b)	Describe how Dynamic metamorphism leads to formation of metarocks.	amorphic (2 marks)
3.	(a)	Give <i>three</i> agents of Weathering.	(3 marks)
	(b)	Describe how topography influences Weathering of rocks.	(3 marks)
4.	(a)	State <i>three</i> factors that influence river deposition.	(3 marks)
	(b)	Describe radial drainage pattern.	(2 marks)
5.	(a)	What is Glaciation?	(2 marks)
	(b)	State <i>three</i> factors that influence glacial erosion.	(3 marks)



 $\underline{SECTION\;B}$  Answer question 6 and any other TWO questions from this section.

6.	Study the map of Yimbo 1:50000 ( <b>Sheet 115/1)</b> provided and use it to answer the following questions.							
	(a)	(i)	What is the latitudinal extent of the area covered by the m	ap.(1 mark)				
		(ii)	Give the six-figure grid reference of Ramogi hill.	(1 mark)				
	(b)	(i)	Convert the ratio scale of the map into statement scale.	(2 marks)				
		(ii)	Calculate the area covered by Lake Victoria to the east of I Give your answer in square kilometers.	Easting 30. (2 marks)				
	(c)	cross- rks)						
			On the cross-section, mark and name:					
			Thicket vegetation `	(1 mark)				
			Kapiyo school	(1 mark)				
			• River	(1 mark)				
		(ii)	Calculate the vertical exaggeration of the the cross-section	n.(2 marks)				
	(d)	(i)	Citing evidence from the map, give <i>two</i> economic activitie out in the area covered by the map.	s carried (2 marks)				
		(ii)	Explain how relief has influenced the distribution of settle area covered by the map.	ement in the (4 marks)				
		(iii)	Describe the characteristics of the long profile of river Yal	a.				
				(4 marks)				
7.	(a)	Disting	guish between orogenic and epeirogenic earth movements.	(2 marks)				
	(b)	Give <i>tl</i>	<b>hree</b> features formed in extensional boundary of tectonic pl	lates. (3 marks)				
	(c)	Describe how the following causes earth's movements						
		(i)	Convectional currents in the mantle	(4 marks)				
		(ii)	Gravitative pressure	(4 marks)				

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- (d) State *four* characteristics of the Gregory Rift Valley. (4 marks)
- (e) Explain *four* effects of faulting on the physical environment. (8 marks)
- **8.** (a) Differentiate between derived vegetation and cultivated vegetation.

(2 marks)

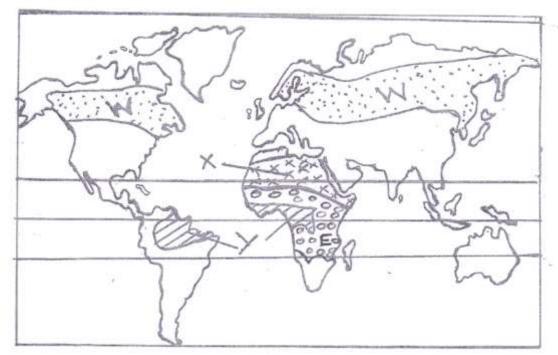
- (b) Explain how the following factors influence vegetation distribution in Kenya:
  - (i) Living organisms

(2 marks)

(ii) Precipitation

(2 marks)

(c) The map below shows the global distribution of vegetation. Study and use it to answer the questions that follow.



(i) Identify the vegetation labelled **W,X, and Y**.

(3 marks)

- (ii) Describe how the vegetation labeled **E** adapts to the environmental conditions. (6 marks)
- (d) Your class is to planning to undertake a field study on vegetation in Mau forest;
  - (i) State *three* preparations you would carry out. (3 marks)
  - (ii) Give *three* sampling techniques you would use. (3 marks)

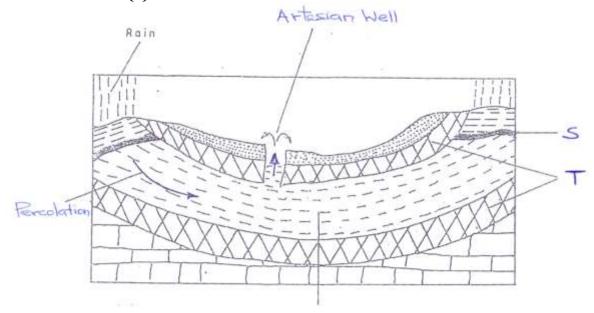
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		(iii)	Identify <i>four</i> challenges you are likely to face during the a study.	ctual field (4 marks)		
9.	(a)	(i)	Differentiate between Aridity and Desertification.	(2 marks)		
		(ii)	Explain the following processes of wind erosion.			
			• Abrasion	(2 marks)		
			• Deflation.	(2 marks)		
	(b)		ith the aid of a well labelled diagram, describe the formation o ushroom block.			
	(c)	(i)	State <i>three</i> factors which influence wind transport.	(3 marks)		
		(ii)	Give <i>three</i> characteristics of a Barchan.	(3 marks)		
	(d)	Form Four students carried a field study near their school on action of water in arid areas.				
		(i)	Give <i>three</i> reasons why they required a route map.	(3 marks)		
		(ii)	State <i>three</i> problems they are likely to encounter while in	the field. (3 marks)		
		(iii)	Name <i>two</i> features they are likely to observe.	(2 marks)		



- 10. (a) State *three* factors necessary for the development of Karst scenery. (3 marks)
  - (b) The diagram below shows an Artesian Basin. Use it to answer the question (i) and (ii).



- (i) Name the parts marked **S** and **T**. (2 marks)
- (ii) State *three* necessary conditions for the formation of an artesian well.

(3 marks)

- (iii) Explain how a Doline is formed. (5 marks)
- (c) (i) Give reasons why some Rift Valley lakes are fresh. (3 marks)
  - (ii) Describe how a tarn is formed. (5 marks)
- (d) Explain *two* negative effects of lakes. (4 marks)