

# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

## A. M. E. C. E. A

### MAIN EXAMINATION

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## MAY – JULY 2018 TRIMESTER

## FACULTY OF ARTS AND SOCIAL SCIENCES

#### **DEPARTMENT OF HUMANITIES**

#### **REGULAR PROGRAMME**

#### GEO 111: CARTOGRAPHY AND MAP ANALYSIS

Date: JULY 2018 Duration: 2 Hours   INSTRUCTIONS: Answer Question ONE and any other TWO Questions			
Q1.	a)	Elaborate steps taken to draw a cross-section/relief.	(6 marks)
	b)	Explain any ways a geographer can identify the direction of to on a map.	flow of a river <b>(2 marks)</b>
	c)	Using a diagram distinguish between latitude and longitude.	(2 marks)
	d)	Using an illustration, explain how the following would appear	ar on a map. <b>(5 marks)</b>
		i) Escarpment. ii) Convex hill.	
	e)	Express 1cm rep 2.5km as a ratio and linear scale.	(5 marks)
	f)	Using an illustration explain how to find <b>6 figure grid refere</b> <b>bearing</b> of a location on a map.	nce and (5 marks)
	g)	Describe how to calculate the area of the plantation using gr method.	id square <b>(5 marks)</b>
Q2.	a)	Discuss the relevance of GIS to a cartographer.	(10 marks)
	b)	Using the free hand lettering technique write your name.	(10 marks)

- Q3. a) Using a diagram examine the difference between a saddle and a pass. (10 marks)
  - b) Explain the three main types of spatial data represented on a map.

(10 marks)

- Q4. a) The scale of a map is 1: 50,000 and the map distance from point A to B is 4 cm. The contour units are given as follows, 600 and 1600. Calculate the gradient of the land. (10 marks)
  - b) Discuss the process of calculating the drainage density. (10 marks)
- Q5. Using an illustration of 20cm by 10cm, explain how a map can be reduced by half using grid square method. (20 marks)

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