

THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

MAIN EXAMINATION

P.O. Box 62157 00200 Nairobi - KENYA Telephone: 891601-6 Fax: 254-20-891084 E-mail:academics@cuea.edu

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 (2 marks) |
| | 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. (5 marks) |
| | | 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 6 figure grid refere bearing 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 (5 marks) |
| 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)

END