



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY
EXAMINATIONS 2018/2019 ACADEMIC
YEAR
THIRD YEAR FIRST SEMESTER**

**SCHOOL OF TOURISM AND NATURAL
RESOURCE MANAGEMENT
BACHELOR OF ARTS (GEOGRAPHY)**

**COURSE CODE: GEO 3237
COURSE TITLE: COMPUTER ASSISTED
CARTOGRAPHY**

**DATE: 18TH APRIL 2019
- 1030HRS**

TIME: 0830

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in section **A** and any other **TWO** in section **B**.

This paper consists of 2 printed pages. Please turn over

COMPUTER ASSISTED CARTOGRAPHY

GEO 3237

SECTION A (30 MARKS) (*compulsory*)

1. (a) State five codes of ethics for thematic map cartographers according to Dent (1999) **(5 marks)**
- (b) Describe the components of a GIS (Geographical Information System). **(10 marks)**
- (c) Explain briefly, what is meant by the term 'map projection'? **(5 marks)**
- (d) (i) What is spatial data? **(2 marks)**
(ii) Examine the raster data advantages and limitations in their applications. **(8 marks)**

SECTION B (45 MARKS) (*answer any TWO questions*)

2. (a) Differentiate raster data from vector data. **(5 marks)**
(b) Explain the parameters of map Quality Control and Error Assessment. **(15 marks)**
3. Discuss the meaning of the following terms as used in map projections.
 - a. Conformal projections **(5 marks)**
 - b. Equal area projections **(5 marks)**
 - c. Equidistant projections **(5 marks)**
 - d. True-direction projections **(5 marks)**
4. (a) State three sources of environmental data **(5 marks)**
(b) There are several different types of system software. Discuss some of these software's. **(15marks)**
5. (a) State four types of digitizing a map. **(4 marks)**
(b) Describe the range of analytical procedures that can be performed by a GIS. **(16 marks)**

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