

**MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER**

**SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT**

**BACHELOR OF EDUCATION (ARTS) AND BACHELOR OF ARTS (GEOGRAPHY)**

**COURSE CODE: GEO 328**

**COURSE TITLE: COMPUTER ASSISTED CARTOGRAPHY**

**DATE: 8TH MAY 2017 TIME: 8.30AM – 10.30AM**

**INSTRUCTIONS TO CANDIDATES**

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

***This paper consists of 3 printed pages. Please turn over***

**COMPUTER ASSISTED CARTOGRAPHY GEO 328**

**SECTION A (25 MARKS) (*compulsory*)**

1. (a) State five Code of ethics for thematic map cartographers according to Dent (1999) **(5 marks)**

(b) Describe the components of a GIS (Geographical Information System). **(6 marks)**

(c) Explain briefly, what is meant by the term ‘map projection’? **(4 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 THREE questions*)**

1. (a) Differentiate raster data from vector data. **(2 marks)**

(b) Explain the parameters of map Quality Control and Error Assessment. **(13 marks)**

1. Discuss the meaning of the following terms as used in map projections.
   1. Conformal projections  **(4 marks)**
   2. Equal area projections **(4 marks)**
   3. Equidistant projections **(4 marks)**
   4. True-direction projections **(3 marks)**
2. (a) State three sources of environmental data **(3 marks)**

(b) There are several different types of system software. Discuss some of these software’s. **(12marks)**

1. (a) State four types of digitizing a map. **(4 marks)**
2. Describe the range of analytical procedures that can be performed by a GIS. **(11 marks)**