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   **TIME: 0830 – 1030HRS**

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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