



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF TOURISM

UNIVERSITY EXAMINATION FOR:

BSC IN TOURISM

ECV 4240 : GIS SYSTEMS

END OF SEMESTER EXAMINATION

SERIES: APRIL 2016

TIME: 2 HOURS

DATE: 10 May 2016

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, Drawing Instruments, Scientific calculator, examination pass and student ID

This paper consists of five questions.

Attempt question ONE (Compulsory) and any other TWO questions.

Question ONE (Compulsory)

- a). Differentiate between the following pairs of terms
 - i). Data and Information
 - ii). Database and Database Management Systems
 - iii). Information and knowledge
 - iv). Knowledge and evidence (8 Marks)
- b). Discuss data collection processes in a GIS system (10 Marks).
- c). What are the advantages and disadvantages of manual digitizing process? (6 Marks).
- d). List down the reasons that may lead to unsuccessful implementation of a GIS system (6 Marks).

Question TWO

- a) List down ANY five parameters used in the evaluation of a scanner (5 Marks).
- b) Describe the components of a GIS system (10 Marks).
- c) Differentiate between batch and interactive modes (5 Marks).

Question THREE

- a). What are the tangible and intangible benefits of a GIS system (8 Marks).
- b). List down the five categories of editing problems (5 Marks).
- c). What are the main components of GIS software or tools (7 Marks).

Question FOUR

- a). Discuss advantages and disadvantages of database management system (15 Marks).
- b). Explain the reasons of implementing a GIS system (5 Marks).

Question FIVE

- a). Discuss three methods of carrying out digitization Process (6 Marks).
- b). Explain vector and raster data (8 Marks).
- c). Discuss factors that must be considered in selecting spatial data representations (6 Marks).