



MAASAI MARA UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018 (REGULAR)

SCHOOL OF SCIENCE AND INFORMATION SCIENCES

**UNIVERSITY EXAMINATIONS FOR THE DEGREE OF BACHELOR OF
SCIENCE (COMPUTER SCIENCE)**

SECOND YEAR FIRST SEMESTER EXAMINATION

COURSE CODE: EEM 2212

COURSE TITLE: COMPUTER APPLICATION

DATE: 29TH APRIL, 2019

TIME: 8.30- 10.30AM

INSTRUCTIONS

Answer Question ONE and any other TWO

SECTION A

QUESTION ONE (COMPULSORY 30 MARKS)

- a) What is the difference between Application Software and System Software (4 Mks)
- b) Name and explain three types of cloud models available (6 Mks).
- c) Using a well labeled diagram explain the basic concepts of GIS (6 Mks)
- d) Difference between Human and Machine Intelligence (4 Mks)
- e) Name and explain the functions of ArcGIS machine learning tools (6 Mks)
- f) Computer communication is an important aspect in information technology. Computers commonly communicate through a computer network. Answer the following questions:
 - i. What is a network? [1 Mks]
 - ii. Explain any three benefits of a network [3 Mks]

SECTION B

QUESTION TWO (20 MARKS)

- a) The CPU is comprised of three main parts, name and explain the functions of the parts (3 Mks)
- b) What is a machine learning? (2Mks)
- c) Name and discuss the Importance of emerging computer trend on environmental management (6 Mks)
- d) Define and explain the difference between RAM and ROM. (3Mks)
- e) There are Two AI methods widely used in GIS, Identify and explain each giving an example (6 Mks).

QUESTION THREE (20 MARKS)

- a) Computer networks are classified based on various factors, name and explain each (8 Mks).
- b) Name Three special purpose memories found either inside or outside the microprocessor and explain what each does. (6Mks)
- c) List and explain the three types of buses found in the CPU. (6Mks)

QUESTION FOUR (20 MARKS)

- a) What is computer Modelling? (2 Mks)
- b) Using a well labeled diagram please explain how Modelling process works (8 Mks)
- c) Discuss five benefits of cloud computing on environmental management. (10Mks).

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