TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN MARINE ENGINEERING (DMAE)

EMR 2102: INFORMATION COMMUNICATION TECHNOLOGY I

END OF SEMESTER EXAMINATION
SERIES: AUGUST 2014
TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
- *Answer Booklet*
This paper consists of **FIVE** questions.
Attempt question **ONE (Compulsory)** and any other **TWO** questions
Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Question One (Compulsory)

a) Explain the following terms:
   (i) Computer
   (ii) Server
   (iii) Work station
   (iv) Information appliances
   (v) Embedded computers   **(10 marks)**

b) State pointing and image/video input devices.   **(5 marks)**

c) What is an output device and give THREE examples.   **(5 marks)**

d) Explain the various components of the motherboard   **(10 marks)**

Question Two

a) Differentiate between the major types of software.   **(2 marks)**

b) Describe the functions of operating system.   **(4 marks)**

c) Identify THREE methods for developing application software.   **(3 marks)**

d) Describe the major types of application software.   **(6 marks)**

Question Three

a) Define computer security   **(2 marks)**

b) Define a threat in relation to computing.   **(2 marks)**

c) What is a virus?   **(1 mark)**

d) Explain the various types of threats to computer security.   **(6 marks)**

Question Four

a) Identify the benefits of ergonomics.   **(5 marks)**

b) Describe the hazard control measures for office based environments.   **(10 marks)**

Question Five

a) Distinguish the following:
   (i) Information and Data   **(4 marks)**
   (ii) Information Communication Technology and Information Technology **(4 marks)**
   (iii) Random Access Memory and Read Only Memory   **(4 marks)**

b) State the roles of a system analyst.   **(3 marks)**