



TECHNICAL UNIVERISTRY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN MARINE ENGINEERING (DMAE 01 Y1 S2)

EMR 2206: ICT II

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 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 **THREE** printed pages

Question One (Compulsory)

- a) Write short notes on the following types of computers:
- (i) Laptops
 - (ii) Super computers
 - (iii) Main frames
 - (iv) Work station
 - (v) Tablets
- (10 marks)**
- b) List **THREE** types of operating systems in use today. **(3 marks)**
- c) Identify **THREE** functions of an operating system **(3 marks)**
- d) List **TWO** input and **TWO** output devices on a computer system. **(4 marks)**

Question Two

- a) Define the following terms:
- (i) Computer
 - (ii) Software
 - (iii) Hardware
- (6 marks)**
- b) Give and explain **THREE** advantages of using information technology. **(6 marks)**
- c) Differentiate between system software and application software giving **THREE** examples of each. **(8 marks)**

Question Three

- a) What do you understand by the term “storage device” **(2 marks)**
- b) What do you understand by the term electronic mail? Write its **FOUR** advantages. **(6 marks)**
- c) Define the term Network and list **FOUR** advantages of using one. **(6 marks)**
- d) Write short notes on the following:
- (i) Control Unit or CPU
 - (ii) RAM
 - (iii) Motherboard
 - (iv) Monitor
- (6 marks)**

Question Four

- a) You want to purchase a computer/laptop. Explain how the following list of requirement will be considered in making your decision:
- (i) Processor type
 - (ii) Hard disk capacity
 - (iii) Size
 - (iv) Type of operating system
 - (v) Portability
- (10 marks)**
- b) Explain the unique features of the 5 generations of computers listing the types of computers in each generation. **(10 marks)**

Question Five

- a) Explain FIVE advantages of using the internet and how it can enhance better information sharing. **(10 marks)**
- b) List FIVE examples of ways one can secure their computers. **(5 marks)**
- c) What is computer preventive maintenance and how is it important to the performance of a computer system **(5 marks)**