



TECHNICAL UNIVERISTRY OF MOMBASA

# Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN MARINE ENGINEERING (DMAE 01 Y1 S1)

EMR 2102: ICT I

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) Define the term Information Communication & Technology. **(2 marks)**
- b) List FOUR advantages of using Information Technology in Marine Engineering. **(4 marks)**
- c) Differentiate between input and output devices listing examples of both. **(4 marks)**
- d) Explain how IT can be integrated in Marine Engineering to enhance and improve service delivery **(5 marks)**
- e) How has the use of the internet improved communication and information sharing. **(3 marks)**
- f) Define the following terms:
  - (i) Hardware
  - (ii) Software**(2 marks)**

### **Question Two**

- a) What is a storage device and THREE examples. **(5 marks)**
- b) List ways in which data can be protected from unauthorized users. **(5 marks)**
- c) What is the difference between an operating system and application software. **(5 marks)**
- d) What is a database and give THREE advantages of having one. **(5 marks)**

### **Question Three**

- a) Define the following terms:
  - (i) Application software
  - (ii) Data processing
  - (iii) Information Technology
  - (iv) Password
  - (v) Desktop**(10 marks)**
- b) Mention FIVE considerations that one makes when purchasing a laptop or any computer system. **(10 marks)**

### **Question Four**

- a) Write brief notes on the following terms:
  - (i) Spam
  - (ii) malware
  - (iii) Anti-virus
  - (iv) Trojan horse
  - (v) Hacking**(10 marks)**
- b) What is computer preventive maintenance and how does it improve the performance of a computer? **(5 marks)**
- c) What is a website and how can it be used to pass information to the greater population. **(5 marks)**

### **Question Five**

**a)** Define the following components:

- (i)** RAM
- (ii)** Processor
- (iii)** DVD-ROM
- (iv)** CPU
- (v)** Mouse

**(10 marks)**

**b)** List and explain FIVE benefits of using the internet in marine studies.

**(10 marks)**