



TECHNICAL UNIVERISTRY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN MARINE ENGINEERING (DMAE 04 Y2 S2)

EMR 2219: ICT IV

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 **TWO** printed pages

Question One (Compulsory)

- a) Define CAD and the packages used in its application **(10 marks)**
- b) Explain in details what software and hardware maintenance are. **(10 marks)**
- c) What are the objectives of performance maintenance and trouble shooting. **(10 marks)**

Question Two

- a) What is curative maintenance? **(4 marks)**
- b) Define the following:
 - (i) C Programming
 - (ii) Back ups
 - (iii) Hexadecimal number system
 - (iv) Binary number system
 - (v) Computer **(10 marks)**
- c) What software are used or applicable in marine industry. **(6 marks)**

Question Three

- a) (I) In C programming, define the following:
 - (i) Records
 - (ii) Arrays
 - (iii) Character coding
 - (iv) Syntax **(4 marks)**
- (II) Explaining how they are declared. **(8 marks)**
- b) State some of the CAD features with explanations **(8 marks)**

Question Four

- a) Explain any FIVE advantages of ICT in marine industry **(10 marks)**
- b) Explain any FIVE benefits of preventive computer maintenance **(10 marks)**

Question Five

- a) Write a simple C program that does/uses arithmetic expressions. **(5 marks)**
- b) Write an input/output statements as used in C program. **(5 marks)**
- c) What are CAD simulators? **(5 marks)**
- d) Define the various data hierarchical concepts. **(5 marks)**