



TECHNICAL UNIVERISTRY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN MECHANICAL ENGINEERING (DMAE 3)

EMR 2206: ICT III

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** 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 data security (2 marks)
- b) What unique features would you find while using MS-Excel as compared to a manual system. (6 marks)
- c) List FOUR characteristics of a strong password (4 marks)
- d) Explain THREE instances where ICT can be integrated with Marine Engineering (3 marks)
- e) Explain the following terms (3 marks)
 - (i) Workbook
 - (ii) Worksheet
 - (iii) Data Entry
- f) List TWO disadvantages of the Internet (2 marks)

Question Two

- a) Differentiate between Copy and Paste and Cut and Paste (4 marks)
- b) Explain the following term (10 marks)
 - (i) Information Technology
 - (ii) Operating System
 - (iii) Word processor
 - (iv) Computer Aided Design (CAD)
 - (v) Computer
- c) Explain the following terms as used in Database Management (6 marks)
 - (i) Data Item
 - (ii) Field
 - (iii) Record(10 marks)

Question Three

- a) Name SIX input devices (6 marks)
- b) Describe any FOUR functions of the Operating System Software (4 marks)
- c) Explain the FIVE generations of computer (10 marks)

Question Four

- a) Explain the following features in Ms-Word (10 marks)
 - (i) Front
 - (ii) Aligning text
 - (iii) Insert picture
 - (iv) Print preview
 - (v) Tool bars

b) Explain how the following terminologies are used in Excel

- (i) COUNT IF
- (ii) SUM
- (iii) MERGE CELL
- (iv) COLUMN
- (v) ROW

(10 marks)

Question Five

a) List FIVE ways a student in Marine Engineering can use the following application software

- (i) Ms-Word
- (ii) Ms-Access
- (iii) Ms-Excel
- (iv) Internet Explorer
- (v) Ms PowerPoint

(10 marks)

b) Outline three advantages and two disadvantages that computerization of Marine Engineering Operations has over a manual system.

(10 marks)