**TECHNICAL UNIVERISTY OF MOMBASA**

# Faculty of Engineering & Technology

**DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY**

DIPLOMA IN MARINE ENGINEERING (DMAE 3)

**EMR 2206: ICT III**

SPECIAL/SUPPLEMENTARY EXAMINATION
**SERIES:** FEBRUARY 2015
**TIME:** 2 HOURS

<u>**Instructions to Candidates:**</u>
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)** Explain FOUR benefits computers have brought to Marine Engineering. **(4 marks)**

**b)** Explain any FOUR method of ensuring data security. **(4 marks)**

**c)** Define the term computer system. **(2 marks)**

**d)** With the aid of a diagram, describe data processing cycle. **(8 marks)**

**e)** What is an application software? **(2 marks)**

**Question Two**

a) Define the following terms:
    (i)    Hardware
    (ii)   Software
    (iii)  Computer virus
    (iv)  Computer network
    (v)   Scanner **(10 marks)**

**b)** (i)  What is mail merge **(2 marks)**
    (ii) Describe the process and steps to achieving a mail merged document. **(6 marks)**
    (iii) Differentiate between CUT and COPY. **(2 marks)**

**Question Three**

**a)** Explain the following terms:
    **(i)**    Data security
    **(ii)**   Computer applications
    **(iii)**  Computer system
    **(iv)**  Network device
    **(v)**   Booting process **(10 marks)**

**b)** Explain any FIVE characteristics of a strong and secure password and system. **(10 marks)**

**Question Four**

a) State THREE features of the MS-WORD application. **(3  marks)**

b) Explain any THREE ways ICT can be Integrated with Marine Engineering. **(6 marks)**

c) Differentiate between the following:
    (i)      Website and webpage
    (ii)     Download and upload
    (iii)    Operating system and application system
    (iv)    CUT and COPY **(8 marks)**

d) List with examples any THREE input and output devices. **(3 marks)**

**Question Five**

a) Describe the following types of computers:
    **(i)** Mainframe computers
    **(ii)** Super computer
    **(iii)** Palmtop
    **(iv)** Laptop
    **(v)** Mini-computer                             **(10 marks)**

b) State FIVE characteristics of good information.     **(5 marks)**

c) Name any FIVE Hardware Components.     **(5 marks)**