



TECHICAL UNIVERSITY OF MOMBASA
**Faculty of Engineering &
Technology**

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN MASS COMMUNICATION
(DMRP I)

EIT 2130: COMPUTER APPLICATIONS

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: FEBRUARY 2013

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions

Answer 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

SECTION A (COMPULSORY)

Question One (30 marks)

- a) Define the following terms:
i) Computer
ii) Network Topology
iii) Computer Virus
iv) Hardware
v) Software **(5 marks)**
- b) Discuss the roles of each of the following components of a Computer system and give **TWO** example of each
i) Input devices
ii) Output devices **(4 marks)**
- c) Justify why an organization should embrace the use of ICT. **(6 marks)**
- d) Differentiate the following and give examples for each case as used in computer system.
i) Primary Memory
ii) Secondary Memory **(4 marks)**
- e) Giving examples explain the functions of operating system. **(8 marks)**
- f) List the main classifications of printers. **(3 marks)**

SECTION B (Answer Any Two Questions)

Question Two (20 marks)

- a) Discuss factors that influence the speed of a computer operation. **(8 marks)**
- b) Use of computer has become a necessary in many fields. With examples, describe the following types of information systems. **(12 marks)**
i) TPS
ii) MIS
iii) DSS
iv) ESS

Question Three (20 marks)

- a) List and discuss the main components of Central processing Unit. **(8 marks)**
- b) Computers have evolved since when they were invented. Describe the new emerging technology trends. In the evolution. **(4 marks)**
- c) Differentiate between:
i) Data and information
ii) VCD and DVD
iii) Hardcopy and Softcopy

Question Four (20 marks)

- a) How would you recognize a computer that is infected by virus? (5 marks)
- b) Describe any **TWO** network topologies giving at least ONE advantage and ONE disadvantage of each. (6 marks)
- c) Explain the purpose of the following:
- i) Cmos Memory
 - ii) Cache Memory
 - iii) Computer Bus
 - iv) Registers (4 marks)
- d) Describe **FIVE** challenges facing Managers as they try to computerize their organizations. (5 marks)