



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering & Technology

DEPARTMENT COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN INFORMATION TECHNOLOGY (CIT 2K 11S)

EIT 1122: FUNDAMENTAL OF COMPUTER & OPERATING SYSTEM

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: FEBRUARY/MARCH 2012

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions in **TWO** sections **A & B**

Answer 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

SECTION A (COMPULSORY)

Question 1

- a) Define the following terms (4 marks)
- (i) Output devices
 - (ii) Input devices
 - (iii) CPU
 - (iv) Storage media
- b) State and explain the function of the CPU components (6 marks)
- c) Write down the procedure followed when creating a folder in windows explorer (3 marks)
- d) Write short notes on the following output devices.
- (i) Visual Display Unit
 - (ii) Printers
 - (iii) Voice data output devices
- e) Explain any advantages and disadvantages of using voice data input (3 marks)
- f) Explain factors to consider in selecting a storage device (4 marks)
- g) List **TWO** advantages and disadvantages of using printers as output devices (4 marks)
- h) Write short notes on:
- (i) Optical disk
 - (ii) Magnetic disk
 - (iii) Magnetic tape

SECTION B (Answer any two questions)

Question 2

- a) Describe parameter involved in accessing data stored in magnetic disk (4 marks)
- b) Explain the function of secondary/backing storage device in computer systems. (3 marks)
- c) Explain the two broad types of Operating Systems (10 marks)
- d) Mouse is pointing device that is widely used, explain the various uses of the mouse as an input device (3 marks)

Question 3

- a) Write short notes on the following input devices:
- (i) Keyboard
 - (ii) Scanner
 - (iii) Mouse
 - (iv) Optical mark (8 marks)
- b) Define computer software and explain the TWO classification of software (6 marks)

- c) Explain the following terms as used in operating system (6 marks)
- (i) Multiprogramming
 - (ii) Multiprocessing
 - (iii) Multitasking

Question 4

- a) With an aid of a diagram, explain functions of computer system touching on input, processing, storage and output giving example in each case (12 marks)
- b) Explain **THREE** types of Optical disks (6 marks)
- c) Write down the procedure followed to copy and paste a document from one drive to another (2 marks)

Question 5

- a) Explain the **TWO** broad types of Operating Systems (10 marks)
- b) Secondary Storage devices are said to supplement primary storage, highlight other three uses of secondary storage. (3 marks)
- c) You are an IT Specialist in a Busy IT consultant company; explain factors that you will advice the user to pay attention to before buying a particular hardware (7 marks)