



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN COMPUTER & MAINTENANCE
(CICM 13M)

EIT 1102: FUNDAMENTALS OF COMPUTERS & OPERATING SYSTEMS

END OF SEMESTER EXAMINATION

SERIES: AUGUST 2013

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) Describe the functions of the devices below. (6 marks)
(i) CPU
(ii) Memory
(iii) Hard disk
- b) Describe **FIVE** functions of an operating system. (10 marks)
- c) List the drawbacks of the first generation computers. (4 marks)
- d) Explain **FIVE** types of operating system. (10 marks)

Question Two

- a) Describe the fourth generation computer based on:
(i) Hardware
(ii) Software
(iii) Computing characteristics
(iv) Physical appearance
(v) Their applications (15 marks)
- b) Give **TWO** examples of fourth generation computers. (2 marks)
- c) List the drawbacks of the fourth generation computers. (3 marks)

Question Three

- a) Give the means of:
(i) GUI
(ii) XP (2 marks)
- b) List **THREE** significant limitations of a computer. (3 marks)
- c) Describe **TWO** types of operating systems based on interface giving an example for each. (4 marks)
- d) Explain **THREE** advantages of flash memory storage. (6 marks)
- e) Define microcomputer. (1 mark)
- f) Give **TWO** examples of microcomputer. (2 marks)
- g) Stage **TWO** devices that can be used to audio input to a computer. (2 marks)

Question Four

- a) Explain **THREE** advantages of flash memory storage. (6 marks)
- b) Give **TWO** examples of impact printers. (2 marks)
- c) Discuss computer hardware under the following supplies. (12 marks)

- (i) Input devices
- (ii) Output devices
- (iii) Storage devices
- (iv) Processor

Question Five

Convert the following storage to the particular measurement:

(20 marks)

- (i) 1GB MB
- (ii) 1024KB Bytes
- (iii) 2GB KB
- (iv) 1024MB GB
- (v) 10GB MB
- (vi) 2000KB MB
- (vii) 2MB KB
- (viii) 4800MB GB
- (ix) 6MB Bytes
- (x) 100GB MB