



TECHNICAL UNIVERSITY

OF MOMBASA

UNIVERSITY EXAMINATION FOR:

BSME Y2S1

ICS 2174: INTRODUCTION TO COMPUTER SCIENCE

END OF SEMESTER EXAMINATION

SERIES:

TIME: **HOURS**

DATE:

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of questions. Attempt

Do not write on the question paper.

Question ONE (30 marks)

- a) By citing an example in each case, differentiate between the following
- i) Analogue and digital computers (6 marks)
 - ii) Special purpose and general purpose computers (6 marks)
- b) For a computer to operate, the 'Systems Software' and the 'Application Software' have to be installed. Briefly explain the two terms as used in computing. (4 marks)
- c) Highlight four services available on the internet. (4 marks)
- d) A computer is a system that comprises of a software and hardware. Describe the role of each of the hardware components found in a computer system. (10 marks)

Question TWO (20 marks)

- a) Name two output devices used for producing softy-copy output, and two output devices used for producing hard-copy output. (4 marks)

- b) Buying a computer from the market requires a careful consideration. Explain any four factors that one should consider when buying a computer system. (8 marks)
- c) Giving examples, explain types of printers and their working mechanisms (8 marks)

Question THREE (20 marks)

- (a) What is a cache memory? Highlight two advantages and two disadvantages of cache memory. (5 marks)
- (b) Differentiate between a 'CRT' and a 'TFT' monitor (5 marks)
- (c) Highlight five symptoms of computer viruses. (5 marks)
- (d) What measures can be employed to curb viruses from affecting computers (5 marks)

Question FOUR (20 marks)

- a) Differentiate between the following terms
- i) Intranet and extranet (5 marks)
 - ii) ROM and RAM (5 marks)
- b) The secondary storage is very important in a computer system. State any four reasons why computer system requires secondary storage media. (4 marks)
- c) By citing an example in each case, how will you differentiate operating system from system utilities in order for the management to buy the right software? (6 marks)

Question FIVE (20 marks)

- (a) What are the benefits of networking? Outline any Five benefits (5 marks)
- (b) Describe the three types of networks basing on the size (9marks)
- (c) Explain the following terms as used in computer security (6 marks)
- Integrity
 - Authentication
 - Auditing