



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION & TECHNOLOGY
DICT 2K, 11M, DICT 11M

ECT 2104: INTRODUCTION TO ICT

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SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: OCTOBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer booklet*

Answer question **ONE (COMPULSORY)** in section A and any other **TWO** questions from section B

Maximum marks for each part of a question are clearly shown.

This paper consists of **THREE** printed pages

SECTION A (30 marks)

Question 1 (Compulsory)

- a) ICT is mainly concerned with the storage, retrieval, manipulation, transmission or receipt of digital data. Explain this statement. (8 marks)
- b) State the difference between:
- (i) Personal Computer and Desktop (2 marks)
 - (ii) Server and Super Computer (2 marks)
- c) State the principal characteristics of a computer (3 marks)
- d) Explain the importance of computers to the society (10 marks)
- e) List and describe **FIVE** components found on the motherboard (5 marks)

SECTION B (40 marks)

Question 2 (20 marks)

- a) State the importance of computer safety and ergonomics in ICT? (7 marks)
- b) Describe the von Neumann computer (6 marks)
- c) What are some of the health issues that are related to the use of computers (4 marks)
- d) What are the limitations of computer as compared to the human mind? (3 marks)

Question 3 (20 marks)

- a) What is a malicious code? Give examples (2 marks)
- b) Discuss the role of an Operating System as a:
- (i) Resource allocator (2 marks)
 - (ii) Control Program (2 marks)
- c) Name **FOUR** output devices and describe their functions (4 marks)
- d) Discuss the **FIVE** computer security threats (10 marks)

Question 4 (20 marks)

- a) Discuss the functions of the following ICT personnel (16 marks)
- (i) Network Engineer
 - (ii) Network Administrator
 - (iii) System Administrator
 - (iv) Web Designer

- (v) Web Developer
- (vi) Help Desk
- (vii) Computer programmer
- (viii) System Analyst

b) What is ICT? (4 marks)

Question 5 (20 marks)

- a) Name FOUR input devices and describe their functions (4 marks)
- b) Discuss the trends in ICT in regard to hardware. Software and communication (8 marks)
- c) List the importance of ICT to organizations and Society (10 marks)
- d) Discuss the functions of the following components (10 marks)
 - (i) Control unit
 - (ii) Arithmetic Logic unit
 - (iii) Registers
 - (iv) System Bus
 - (v) Memory