



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION
TECHNOLOGY

CERTIFICATE IN INFORMATION TECHNOLOGY – CIT2K 11M
YR I SEM I

EIT 1121: INFORMATION PROCESSING

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer booklet*

This paper consists **TWO** sections **A & B**. Attempt question **ONE (COMPULSORY)** from section **A** and any other **TWO** from Section **B**

This paper consists of **THREE** printed pages

SECTION A (COMPULSORY)

Question 1 (Compulsory)

- a) What is data processing? (2 marks)
- b) What is statistics (2 marks)
- c) Describe any **THREE** data collection methods (6 marks)
- d) Give the distinguishing features of each of the following data storage devices
 - i) Terabyte hard disk
 - ii) Flash disk
 - iii) Magnetic tape (6 marks)
- e) Describe the factors to consider when selecting a data collection method (5 marks)
- f) Write short notes on each of the following
 - i) Antispyware
 - ii) Firewall
 - iii) Intrusion detection system (9 marks)

SECTION B (Answer any TWO questions in this section each is 20 marks)

Question 2

- a) What is data processing modes (3 marks)
- b) With the help of a diagram, describe time-slicing processing modes (7 marks)
- c) Give the advantages and disadvantages of time-slicing processing modes (6 marks)
- d) Represent each of the following binary numbers to its decimal equivalence
 - i) 11110000
 - ii) 11001101 (4 marks)

Question 3

- a) What is information system? (2 marks)
- b) Highlight the information requirements of each of the following functional areas of an organization
 - i) Accounting department
 - ii) Registrar
 - iii) Library (9 marks)
- c) Highlight the features of each of the following management information system
 - i) Customer Relation Management System (CRM)
 - ii) Transaction Processing System (TPS)
 - iii) Supply Chain Management System (SCMS) (9 marks)

Question 4

- a) Briefly outline the stages of system development (14 marks)
- b) Give the characteristics of a good password (6 marks)

Question 5

- a) Describe the following attributes of a file
- i) Bit
 - ii) Field
 - iii) Record
- (5 marks)
- b) State and describe any **THREE** types of file (6 marks)
- c) Using examples highlight the meaning of each of the following
- i) Data
 - ii) Information
 - iii) Knowledge
- (9 marks)