



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR BACHELOR OF SCIENCE IN INFORMATION
TECHNOLOGY – BSC I.T 11M

BIT 2223: INSTALLATION & CUSTOMIZATION

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

QUESTION 1

- a) Briefly explain any **TWO** roles of a system analyst [4 marks]
- b) Explain the difference in meaning between the following terms [8 marks]
- i) Formal and informal information systems
 - ii) Logical and physical dataflow diagrams
- c) State the deliverables of each of the following SDLC stages [3 marks]
- i) Feasibility study
 - ii) System design
 - iii) System implementation
- d) Explain the terms module decoupling and module cohesion and state why they are desirable characteristics in modular software design [5 marks]

QUESTION 2

- a) Explain the importance of system maintenance [3 marks]
- b) Explain the following feasibilities [9 marks]
- i) Economic feasibility
 - ii) Technical feasibility
 - iii) Operational feasibility
- c) Explain any four features of user-interface design during system development [8 marks]

QUESTION 3

- a) With the aid of a diagram, describe the structure of SAADM [11 marks]
- b) Describe the three levels of organizational information for management [9 marks]

QUESTION 4

- a) Briefly explain the three views of data in SSADM [6 marks]
- b) Explain any four activities carried out during system implementation [8 marks]
- c) Describe any three conversion strategies employed during system implementation [6 marks]

QUESTION 5

A company has one chief executive officer who is not employed by the other companies. A company has several divisions each of which employs several people. No employee works for more than one division. Each product may be made out of one or more raw materials. Any raw material may go into more products. Required:

Construct an lds for the above information. [20 marks]

QUESTION 6

An analyst has recorded the following at an interview. Orders are received directly from customers. The order details are checked to ensure that the product and payment type are valid values. Rejected orders are sent back to the customers. Accepted order details are stored on an order file. At the end of the day, dispatch notes are raised for all orders received that day. A copy of the dispatch note is sent to the customers and a second copy is sent to the warehouse. The dispatch date is noted on the order file. At the end of the week, an invoice is raised and sent to the customers. The invoice date is noted on the order file. Required:

Draw:

A context diagram

Level 0 dfd [20 marks]

Level 1 dfd

QUESTION 7

- a) Explain three functions of information systems [6 marks]
- b) Explain three objectives of system design [6 marks]
- c) Briefly explain any four fact-finding techniques [8 marks]

QUESTION 8

In structured system analysis and design methodology, the design stages are numbered 4, 5 and 6.

- (i) Name these three design stages [3 marks]
- (ii) Describe briefly the input to stage 4 from stage 3 [3 marks]
- (iii) Explain briefly the activities in each of the three design stages [9 marks]
- (iv) Name the end-product of stage 6 and summarize its contents [3 marks]
- (v) What follows SSADM stage 6 in the project life cycle. [2 marks]