



TECHNICAL UNIVERSITY MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
(DICT M12)

ECT 2108: SYSTEM ANALYSIS DESIGN (SAD)

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: FEBRUARY 2013

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions

Answer question **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Question One (Compulsory)

- a) (i) Differentiate between formal information systems and informal information system. **(4 marks)**
(ii) Name and explain **THREE** system development principles. **(6 marks)**
- b) (i) What is feasibility study? Why is it important? **(4 marks)**
(ii) What are the guidelines for designing a questionnaire? **(4 marks)**
(iii) With an aid of a diagram, explain the components of a computer based information system. **(12 marks)**

Question Two

- a) Name any **THREE** advantages of Questionnaire. **(3 marks)**
- b) State and explain any **SIX** stages of system development cycle. **(12 marks)**

Question Three

- a) Outline any **SIX** contents of the feasibility study report (system proposal) **(6 marks)**
- b) Discuss the **THREE** levels of organizational information for management. **(9 marks)**

Question Four

- a) Define the following terms:
(i) System analysis
(ii) System
(iii) System theory **(6 marks)**
- b) (i) Explain **THREE** qualities of a system analyst. **(6 marks)**
(ii) Describe **THREE** data processing methods. **(3 marks)**

Question Five

- a) Explain **TWO** types of systems. **(2 marks)**
- b) State and explain any **FOUR** System Analyst Activities. **(12 marks)**