THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMMUNICATION TECHNOLOGY
(DICT M12/S-EV/S-FT)

ECT 2108: SYSTEM ANALYSIS

END OF SEMESTER EXAMINATION
SERIES: DECEMBER 2012
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** systems development principles. **(6 marks)**

b) (i) Explain feasibility study? Why is it important? **(4 marks)**
(ii) Explain 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 a Questionnaire. **(3 marks)**

b) Describe **THREE** data processing methods. **(12 marks)**

Question Three

a) Outline the contents of 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: **(6 marks)**
(i) System
(ii) System theory
(iii) Entropy

b) (i) Explain **THREE** qualities of a system analyst. **(6 marks)**

(ii) Name any **THREE** systems development life cycle. **(3 marks)**

Question Five

a) (i) Name and discuss the **THREE** conceptual models. **(9 marks)**

(ii) Outline **THREE** types of feasibility study. **(3 marks)**

b) (i) Name **TWO** types of information systems. **(2 marks)**

(ii) Define a formal information system? **(1 mark)**