TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATIONS FOR DEGREE IN:
BACHELOR OF SCIENCE IN INFORMATION COMMUNICATION TECHNOLOGY
(BSIT 14S/BSSC 13S)

EIT 4205/BIT 2212/EIT 4206: SYSTEMS ANALYSIS & DESIGN

END OF SEMESTER EXAMINATION
SERIES: APRIL 2015
TIME: 2 HOURS

Question One (Compulsory)

a) Define the following terms:
  (i) Prototype
  (ii) Model
  (iii) System design
  (iv) Data flow diagram **(8 marks)**

b) Explain the importance of testing a system **(4 marks)**

c) Explain the roles of a system analyst at the state of system development process **(10 marks)**

d) With a suitable diagram, explain in detail a DFD **(8 marks)**

Question Two

a) State and explain the components of controls **(8 marks)**

b) Define Auditing in detail explain how auditing of a system is done **(10 marks)**

c) Discuss TWO reasons that may make an organization abandon a system **(2 marks)**

Question Three

a) State and explain the challenges one could have in implementing a new system in an organization
(10 marks)

b) With a suitable diagram explain any TWO approaches you could use to design a system
(10 marks)

Question Four

a) Define the following terms:
   (i) Feasibility study
   (ii) CASE **(4 marks)**

b) Explain how you can use a prototype to implement an e-commerce system **(12 marks)**

c) Give reasons why it is important to test a system **(4 marks)**

Question Five

a) Discuss the major types of models you will consider using during system logical design stage
(10 marks)

b) Discuss the circumstances under which the organization would acquire a readymade system, outline its benefits **(10 marks)**