THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering & Technology

DEPARTMENT COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY – DICT 2K 9J/DICT 9M

EIT 2311: MANAGEMENT INFORMATION SYSTEMS II

END OF SEMESTER EXAMINATIONS

SERIES: DECEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
- *Answer Booklet*

This paper consist of **FIVE** questions in **TWO** sections **A** & **B**
Answer question **ONE (COMPULSORY)** and any other **TWO** questions
Maximum marks for each part of a question are as shown
This paper consists of **THREE** printed pages

SECTION A (COMPULSORY)

Question one   (30 marks)

a) Describe any **four** Components of Database Systems   (4 marks)

b) Describe application controls in security   (2 marks)

c) Explain any three Causes of system maintenance   (6 marks)

d) Differentiate between the following   (8 marks)
    i)   Sequential and Indexed sequential file organization
    ii)   Batch processing and parallel processing in data processing

e) Explain the Problems of traditional file based approach   (5 marks)

f)   Describe any **five** advantages of e-commerce   (5 marks)

SECTION B (ANSWER ANY TWO QUESTIONS)

Question Two   20marks

Information systems are vulnerable to abuse, fraud and many other dangers especially when they are linked to the internet, with examples

a) Differentiate between general controls from application controls   (4 marks)

b) Describe **five** general controls and three application controls   (16 marks)

Question Three   20marks

Project management is usually an important activity during the development of new information systems. Project resources such as time. cost and personnel would be identified and their uses properly controlled.

   Required:

a) Explain the term 'critical path as used in project management.   (4 marks)

b) Describe the role of project management.   (6 marks)

c) Using a diagram develop a network diagram and determine the critical path from the following project development schedule.   (10 marks)

   Preceeding

Activity	Activity	Duration
A	-	2
B	-	3
C	-	2
D	C	4

E	A	3
F	B	4
G	B	6
H	B	4
I	D and H	6
J	E and F	5

Question Four   20marks

Without proper consideration of the behaviour of people in the business organization setting even the best technically designed system is likely to fail.

Required:

a) Analyze the most common reasons that may lead to resistance to the introduction of Management Information Systems and how an organization can overcome it.   (12 marks)

b) **Explain any two methods of procurement of a computer** and list two advantages for each method.   (8 marks)

Question Five   20marks

a) What reasons would you put forward for adopting a database as a basis for an information system?   (8 marks)

b) Describe a data model and using a diagram explain any three common database structures

            (8 marks)

c)   (i) What is multithreading as applied to a computer system?   (2 marks)

       (ii) Differentiate a data warehouse and a data mart   (2 marks)