TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY

EIT 2204: OFFICE APPLICATION PROGRAMMING

SUPPLEMENTARY/SPECIAL EXAMINATIONS
SERIES: FEBRUARY 2013
TIME: 2 HOURS

<u>**INSTRUCTIONS:**</u>

– This paper consists of **FIVE** questions.
– Answer question **ONE (Compulsory)** and any other **TWO** questions.
This paper consists of Three printed pages.

SECTION A (Compulsory)

QUESTION 1

a) Define a Graphical User Interface (GUI) and cite an example to explain its relevance. **(5 marks)**
b) Differentiate between VB and VBA. **(2 marks)**
c) Discuss **FOUR** graphical user widgets/controls in visual Basic IDE. **(8 marks)**
d) Define a database. **(2 marks)**
e) What problems does RAD tackle? **(3 marks)**
f) Give the advantages of a graphical user interface (GUI) over command Line Interface (CLI).
(4 marks)
g) What are the characteristics of RAD? **(6 marks)**

SECTION B

QUESTION 2

a) State the roles of the **FOUR** cursors supported by ADO. **(10 marks)**
b) Discuss in detail, the Rapid Application Development Methodology (RAD). **(5 marks)**

QUESTION 3

a) Differentiate between access and SQL database? **(2 marks)**

b) Discuss the functionalities of the following:
   i) Active X data Object (ADO)
   ii) Remote Data Object (RDO)
   iii) Data Access Object (DAO)
   iv) Connection Object
   v) Connection String **(10 marks)**

c) Explain the importance of LockType property of record sets. **(3 marks)**

QUESTION 4

a) Distinguish between event-driven programming and traditional programming practice. **(2 marks)**
b) Discuss **FIVE** reasons a programmer may opt for macros instead of VBA. **(5 marks)**
c) Describe the categories for macros on Microsoft Access forms. **(8 marks)**

QUESTION 5

a) Describe the **FOUR** stages of Rapid Application development. **(7 marks)**

b) Explain these Active X components:
   i) ActiveX
   ii) ActiveX control
   iii) Component Object Model (COM)
   iv) Object Linking and Embedding (OLE) **(8 marks)**