



TECHNICAL UNIVERISTRY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
(DICT 14J – Y2 S1)

ECS 2202: EVENT-DRIVEN PROGRAMMING

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2014

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions. Attempt 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

Question One (Compulsory)

- a) Describe the following in-built function in Visual Basic Programming:
- (i) Input Box
 - (ii) Msg Box
 - (iii) Value ()
- (6 marks)**
- b) Define the following terms in Visual Basic Programming Language:
- (i) Active X
 - (ii) Integrated Development Environment (IDE)
 - (iii) Event Driven Programming
- (6 marks)**
- c) With the aid of examples, illustrate the following:
- (i) Do While Loop
 - (ii) For Next Loop
- (4 marks)**
(4 marks)

Question Two

- a) Define the following:
- (i) Graphical User Interface (GUI)
 - (ii) Variable
- (4 marks)**
- b) Explain the use of the following controls:
- (i) Active X Data Object (ADO)
 - (ii) Datagrid Control
- (4 marks)**
- c) Write ADO code to facilitate the following functionalities for a database table named "STUDENT" with the following fields detail:
- Student Number
 - First Name
 - Last Name
 - Address
- (i) To add new records
 - (ii) To move to the first record
 - (iii) To move to the last record
 - (iv) To save the record
 - (v) To exit the database
- (12 marks)**

Question Three

- a) (i) Explain the term selection control structure in Visual Basic Programming. **(2 marks)**
- (ii) Write a VB program to read Basic Salary and sales made by employees. The program should calculate the commission based on the table below. It should output the commission and the net salary given.

Net Salary = Basic Salary + Commission	
SALES	COMMISSION (% of SALES)
0 – 100	0%

10000 – 20000	8%	
20000 – 30000	12%	
Over 30000	17%	(12 marks)

b) Explain the function switch statement in Visual Basic Programming. **(6 marks)**

Question Four

a) Explain any FOUR data types in Visual Basic Programming. **(8 marks)**

b) Develop a Visual Basic Program to read 10 integer values, then compare them to display the largest. Use a Loop **(12 marks)**

Question Five

a) Write a program that reads temperature for each day in a week in degree celcius, convert the celcius into fareinheits and then calculate the average weekly temperatures. The program should output the calculated average in degrees fareinheits. Given celcius = 5/9x (Fahrenheit = 32) **(10 marks)**

b) Explain any FIVE logical operators in Visual Basic Porgamming. **(10 marks)**