

TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY (BSIT J12/FT)

BIT 2118: APPLICATION PROGRAMMING I

END OF SEMESTER EXAMINATION SERIES: APRIL 2013 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 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)	Describe any FOUR IDE features of visual basic.	(8 marks)
b)	Write a program to enter the year, check then display whether it is a leap year or not.	(4 marks)
c)	Explain the message box in brief	(4 marks)
d)	Discuss THREE types of variable data type in VB	(3 marks)
e)	Identify and correct the errors in the following code. Dim val as integer = 0 Int ctr as integer = 0 Do while val <100 Val = val +5 If ctr> = 10 Exit DO	(4 marks)

f) Write and explain a simple error exception syntax in VB	(4 marks)		
g) Explain variables scope in VB	(3 marks)		
Question Two			
a) Define Array. Explain fixed and dynamic array with example.	(4 marks)		
 b) Explain the following VB function with examples: (i) Cstring () (ii) Lcase () 			
(iii) Val ()	(6 marks)		
c) Write VB codes to connect to a database and save a record into a table.	(10 marks)		
Question Three			
a) Write the use of either function or procedure, write a VB program calculator (+, -, *, /)	n to implement a standard (8 marks)		
b) Explain the THREE IF statements	(6 marks)		
c) With the use of an example, explain the concept of object and classes in	n VB.net. (6 marks)		
Question Four			
 a) Explain the following add.net objects. (i) Connection (ii) Data reader (iii) Data adapter (iv) Command 	(8 marks)		
b) VB is said to be event driven. Explain.	(3 marks)		
c) Write an IF statement that reflects the following logic "If value of nu and num is greater than -8, then display "hallow world" in a message b	-		
 d) Discuss the following: (i) Property window (ii) Loop structures (iii) Break points 	(6 marks)		
Question Five			
a) Explain THREE VB loop structures giving a simple syntax for each. (10 marks)			
b) Write a VB program to output the following: (10 marks)			
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