

TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION

TECHNOLOGY

UNIVERSITY EXAMINATION FOR:

Bsc IT Sept 2015

BIT 2118

: APPLICATION PROGRAMMING I

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2016

TIME:2HOURS

DATE: Pick DateSelect MonthPick Year

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attemptquestion ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

Question 1: 30 Marks

1a)	Describe the procedure of creating a Visual Basic application		
		(4 Marks)	
b)	Describe the functions of the following objects used in Visual Basic progra i) MsgBox	amming:	
	ii) InputBox	(4 Marks)	
c)	Explain the function of any three windows contained in the Visual Basic In Development Environment (IDE)	ntegrated (6 Marks)	
		(0 14161K5)	
d)	Rewrite the following code using select structure:		
	If $x = 1$ then choice = "A"		
	If $x = 2$ then choice = "B"		
	If $x = 3$ then choice = "C"	(3 Marks)	
		. ,	
e)	List any three events	(3 Marks)	
f)	Write code containing repetition structure that will display integers from 1 to 10 c		
	same line on a picture box when a user clicks on a command button	(4 Marks)	
g)	Explain the term 'sentinel data'	(2 Marks)	
h)	Write a Visual Basic statement to declare an array to store names of 50 stu	dents (2 Marks)	
i)	State any TWO advantages of using procedures and functions in a program	ms. (2 Marks)	

Question 2

- a) Develop Visual Basic program to output the following:
 - ii) 1

12	
123	
1234	
12345	
123456	(8 Marks)

b) Briefly explain the following programming paradigms:

- i) Object oriented programming
- ii) Procedural programming
- iii) Event driven programming

(6 Marks)

c) Describe any three types of errors that occur in Visual Basic code

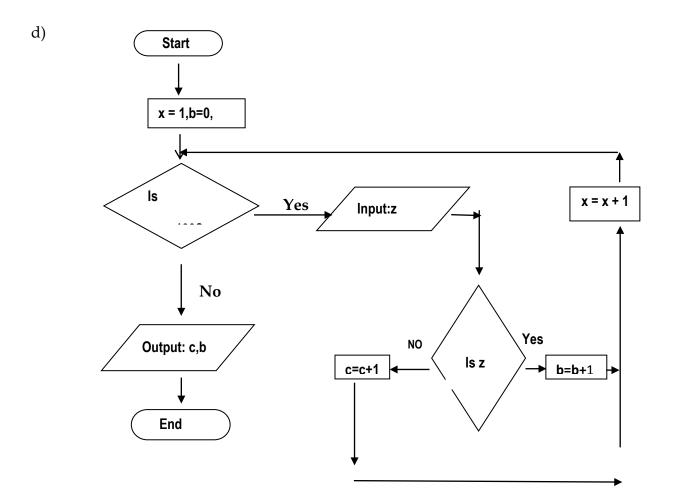
(6 Marks)

Question 3

a) A class of 20 students sat for an exam. Write a Visual Basic procedure that will read the marks of the 20 students and out put the number of students who passed the exam and the number who failed. The pass mark is is 40%. Attach the code to a command button

(10 Marks)

b)	List any 8 data types used in Visual Basic			
				(4 Marks)
c)	Explain each	of the	following operators with example:	
		i)	Modulus	
		ii)	Boolean	
		iii)	Integer Division	
				(6 Marks)
Questi	ion 4			
a)	State Visual	Basic ru	ales for naming variables	
,				(4 Marks)
b)	With an aid o	of suita	ble example explain what is meant by the term 'Event	Procedure'
				(4 Marks)
c)	Explain the t	erm ar	ray as used in Visual Basic programming	
	-			(2 Marks)



For the flow chart shown above:

i)	State its purpose	(3 Marks)	
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ii) Develop Visual Basic code

(7 Marks)

Question 5

- a) Explain the following concepts as applied to Visual Basic:
 - i) Event
 - ii) Method

(4 Marks)

b) Describe the following properties of objects as used in Visual basic:

Caption	i)					
Visible	ii)					
Enabled	iii)					
Text (8 Marks)	iv					
Explain each of the following operators as used in Visual Basic with example:						
ssignment	i.					
Comparison (4 Marks)	ii.					
r standard controls used to get users choice	List any f					

c)

d)

(4 Marks)