

MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF COMPUTING AND INFORMATION TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

UNIVERSITY ORDINARY EXAMINATION

2017/2018 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER EXAMINATION FOR THE DIPLOMA IN INFORMATION TECHNOLOGY

SCS 053 - VISUAL PROGRAMMING

DURATION: 2 HOURS

DATE: 19TH APRIL, 2018

TIME: 9.00 - 11.00 A.M.

Instructions to Candidates:

- 1. Answer Question 1 and Any Other Two questions.
- 2. Mobile phones are not allowed in the examination room.
- 3. You are not allowed to write on this examination question paper.

SECTION A – ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE

a)	Sta	te four features of Visual Basic	(4 marks)
b)	Wi	th aid of an example show how constants are declared in Visual Basic	(2 marks0
c)	Dif	ferentiate between public variable and local variable	(4 marks)
d)) There are four save commands available under the file menu in Visual Basic. Explain the use of		of these
	cor	nmands	(8 marks)
e)	Va	riables are used by Visual Basic to hold information needed by your application. State fou	r rules used
	in 1	naming variables	(4 marks)
f)	Wr	ite a code in command button to exit a running program when clicked	(2 marks)
g)	Dis	stinguish the following as used in Visual Basic programming language	(6 marks)
	i.	Variant data type and form level variable	
	ii.	Picture Box and Frame	(2 marks)
	iii.	Method and Event	(2 marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION QUESTION TWO

a)	Exp	plain the meaning of the following text box properties	(6 marks)
	i.	SelLength	
	ii.	SelStart	
	iii.	SelText	
b)	Dis	stinguish between:	(6 marks)
	i.	Label and command button	
	ii.	ListBox and ComboBox	
	iii.	checkbox and Option button	
c)	Dif	ferentiate between Exit for and Exit do	(2 marks)
d)	Usi	ing For Next loop write a code to display a series of odd numbers between 1 to 100 in a	ListBox
	cor	trol. Attach the code to a command click event	(6 marks)
QUESTION THREE			

a)	Write a code to add the following schools in a combo box; Computing, Engineering, Business,		
	Hospitality and Science (6 ma	ırks)	
b)	Write a Visual Basic program that will be able to display different age category in Table 1. Use If .	Else	
	statement attach the code to a command click event. The user should input the age using the input b	ox and	

(6 marks)

get the category feedback on the message box

Table 1

Age	Category
0 to 12	This is a child
Between 13 and 19	This is a teenager
Between 20 and 35	This is a special adult
Between 36 and 64	This is a mature adult
Above 65	This is a senior citizen
Any other	Invalid age bracket entered

- c) Define array as used in Visual basic programming
- d) Distinguish the following:
 - i. Do while/loop and D/loop While
 - ii. Message box and Input box
 - iii. Setfocus and lostfocus

QUESTION FOUR

- a) Distinguish between the Str () and Val () functions as used in visual basic programming language
 - i. Str()-
 - ii. Val()-
- b) Use the Table below to write a program to input marks attained by a student then output grade in a given course unit using select case. Attach the code in a command button click event. The user should input marks in an InputBox and get the grade in the MessageBox (7 marks)

Mark	Grade
0-39	E
40-49	D
50-59	С
60-69	В
70-100	A

- c) Explain three modes that visual basic operates in
- d) Explaining the function of each of the following components in a visual basic programming language:
 - i. Project Explorer Window
 - ii. Toolbox
 - iii. Object browser

(2 marks)

(6 marks)

(4 marks)

(3 marks)