

UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

SPECIAL/SUPPLEMENTARY EXAMINATIONS FIRST YEAR FIRST SEMESTER

FOR THE DIPLOMA IN (INFORMATION TECHNOLOGY)

COURSE CODE: DIT 052

COURSE TITLE: RAPID APPLICATION DEVELOPMENT

DATE: 07/08/2023

TIME: 11.00 A.M-1.00P.M

INSTRUCTIONS

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE [COMPULSORY] (24 MARKS)

	Define the following terms	[5 marks]			
	. RAD				
11	. Visual Basic				
12					
iv					
	v. Arrayb) Give advantages of RAD that make it stand out better than other programming languages.				
D)	Give advantages of RAD that make it stand out better than other programming amounts	[4 Marks]			
۵)	Using examples differentiate global and local variables	[6 Marks]			
	Study the nested loop below and give its output	[5 Marks]			
u)	Private Sub Form Activate ()	. ,			
	For firstCounter= 1to 5				
	Print "Hello"				
	For secondCounter= 1 to 4				
	Print "Welcome to .Net frameworks"				
	Next secondCounter				
	Next firstCounter				
	Print "Thank you"				
	End Sub				
e)	Explain two phases of building visual basic application	[4 Marks]			
	QUESTION TWO (18 MARKS)				
a)	Differentiate between prototyping and incremental models	[4 Marks]			
	Explain the four stages of the RAD model.	[8 Marks]			
c)	List the various elements of visual basic tool box	[6 Marks]			
QUESTION THREE (18 MARKS)					
a)	Compiling and executing VB.Net Program needs one to take several steps. Outline the	steps			
	followed.	[6 Marks]			
b)	Give the difference between the jagged arrays, multi-dimensional arrays and dynamic	arrays.			
		[6 Marks]			
c)	What does SDLC stand for? What are some of the stages involved in SDLC?	[6 Marks]			
QUESTION FOUR (18 MARKS)					
a)	A	es. Draw a			
	flowchart to represent a true/false state of a loop.	[4 Marks]			
b)	Explain five reasons why we should program	[5 Marks]			
c)	Define the following terms:-	[5 Marks]			
	i. Syntax				

ii. User

	iii. Logic	
	iv. One dimensional array	
	v. Two dimensional arrays	
d)	Describe four rules of naming the visual basic variables	[4 Marks]
	QUESTION FIVE (18 MARKS)	
a)		[8 Marks]
-		[6 Marks]
b)	1	
c)	Give two advantages and two disadvantages of decision trees	[4 Marks]