

**KABARAK**



**UNIVERSITY**

**EXAMINATIONS**

**2008/2009 ACADEMIC YEAR**

**FOR THE DEGREE OF BACHELOR OF EDUCATION  
SCIENCE**

**COURSE CODE: COMP 325**

**COURSE TITLE: BUSINESS APPLICATION ARCHITECTURE**

**STREAM: SESSION V**

**DAY: WEDNESDAY**

**TIME: 2.00 – 4.00 P.M.**

**DATE: 08/04/2009**

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**INSTRUCTIONS:**

**Answer Question One and Any Other Two Questions.**

**PLEASE TURN OVER**

**QUESTION ONE (30 marks)**

- (a) Explain the differences between the mainframe and file sharing architecture (6marks)
- (b) Design an interface and write a VB program to calculate the simple interest (6 marks)
- (c) As a software developer what are the disadvantages of the client server architecture. (5 marks)
- (d) What do you understand by user defined data types? (2 marks)
- (e) In programming arrays are considered very important. What is an array and how are fixed arrays declared in VB. (4 marks)
- (f) Define an application giving examples. (2 marks)
- (g) Write a HTML code to display the following table (5 marks)

SCHOOL	CODE	LOCATION
Nakuru high	N0045	Nakuru
Nairobi school	N0052	Nairobi

**QUESTION TWO (20 marks)**

- (a) What are the rules to follow when naming elements in VB like variables, constants, controls and procedures? (5 marks)
- (b) Explain with the help of an example the use of the preformatted text tag in HTML. (3 marks)
- (c) As web designer define the term internet. (2marks)
- (d) Write a visual basic program to implement the FOR...EACH loop. (4 marks)
- (e) Explain the scope of variables as used in VB Programming. (4marks)
- (f) Briefly explain user-written software giving examples. (2 marks)

**QUESTION THREE (20 marks)**

- (a) Due to the Limitations of the two tier architecture the 3-tier emerged. Highlight the limitations associated with 2-tier architecture. (4 marks)
- (b) Explain the output of the following program (4 marks)

```
Private Sub cmdExit_Click()  
answer = MsgBox("Do you want to quit?", vbExclamation + vbYesNo,  
"Confirm")  
If answer = vbYes Then  
End
```

*Else*  
*MsgBox "Action canceled", vbInformation, "Confirm"*  
*End If*  
*End Sub*

- (c) Briefly explain what you understand by software architecture. (2 marks)
- (d) Identify the differences in the following controls used in VB. DriveListBox, DirListBox and FileListBox. (3 marks)
- (e) What are variables? Explain the different ways of declaring a variable in Visual Basic programming. (4 marks)
- (f) Finding out the difference between Unload and Hide method used in Visual Basic. (3 marks)

**QUESTION FOUR (20 marks)**

- (a) Explain any three sub types of application software (6 marks)
- (b) How would you differentiate between a listbox and a combobox in Visual Basic programming? (2marks)
- (c) What are the advantages of peer-to-peer networks as compared to the other types? (4marks)
- (d) The Visual Basic IDE is made up of a number of components. Highlight any four components. (4 marks)
- (e) A sever is the back born of any network. Differentiate between a Proxy server and mail server. (4 marks)

**QUESTION FIVE (20 marks)**

- (a) Explain the following web terms:
  - (i) Hyperlinks (2 marks)
  - (ii) Web browser (2 marks)
- (b) With the help of HTML code explain how frames can be added in any web page. (4 marks)
- (c) Highlight any four data types used in VB (2 marks)
- (d) Explain in detail the three different Tiers of the 3-tire architecture. (3 marks)
- (e) Differentiate between a property and a property window in VB (3 marks)
- (f) As system administrator how can you differentiate between a server and a client giving examples? (4 marks)