



UNIVERSITY

EXAMINATIONS

2008/2009 ACADEMIC YEAR

FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE

COURSE CODE: COMP 325

COURSE TITLE: BUSINESS APPLICATION ARCHITECTURE

STREAM: Y3S2

DAY: FRIDAY

TIME: 2.00 - 4.00 P.M.

DATE: 20/03/2009

INSTRUCTIONS:

Answer Question One and Any Other Two Questions.

PLEASE TURN OVER

QUESTION ONE (30 marks)

- (a) Write a visual basic program to calculate the area of a circle and display the results using a message box. (6marks)
- (b) As a web designer what is the difference between home page and a web page?

 (3 marks)
- (c) Different programming languages may use different data types. Explain any three different data types used in visual basic. (3 marks)
- (d) Write a HTML code to display the following frames in any web browser.

(5 marks)

| Frame.html | |
|-------------|-------------|
| Frame2.html | Frame3.html |

- (e) Most Internet applications, such as email, web access and database access, are based on the client/server model. What do you understand by client/server software architecture?

 (2 marks)
- (f) You have developed an application that is to run as a client on any computer system. Highlight any four characteristics associated with all client applications.

(4 marks)

(g) What is the difference between a form and a form window in visual basic?

(2 marks)

(h) With code examples differentiate between explicit and implicit variable declarations in visual basic. (5 marks)

QUESTION TWO (20 marks)

- (a) Looping can make programming a fun adventure. Write a visual basic program to implement the while loop. (4 marks)
- (b) Confusion has always engulfed people on the internet and the WWW. Explain the difference between the internet and the World Wide Web? (4 marks)

| (c) | (c) Controls help to simplify programming with VB. What is the use of the OptionButton | | |
|---|--|-----------------|--|
| | control? | (2marks) | |
| (d) | d) As a software developer what do you understand by the term sever? Explain the | | |
| | differences between the Proxy server and Application server. | (4 marks) | |
| (e) | (e) With code examples. Briefly explain the ordered lists and how they are used in any | | |
| | HTML document. | (4marks) | |
| (f) | Define a protocol giving two examples of protocols you know. | (2 marks) | |
| OUES | TION THREE (20 marks) | | |
| (a) The client/server model has become one of the central ideas of network computing. | | | |
| (4) | Briefly explain its advantages. | (4 marks) | |
| (b) | (b) In Visual Basic what is the difference between sub procedures and event procedures? | | |
| (0) | The visual Busic what is the difference decident sub-procedures and event p | (4 marks) | |
| (c) | What is the use of the anchor tag in HTML documents? | (2 marks) | |
| (d) | Being the senior programmer at KPLC junior programmers will always de | pend on your | |
| | advice. Highlight the steps that they should follow in building a visual bas | ic application. | |
| | | (3 marks) | |
| (e) | (e) What is the difference between the local variables and global variables as used in visua | | |
| | basic? | (4 marks) | |
| (f) | (i) Define an array. | (1 mark) | |
| | (ii) Write the code on how a fixed array is declared in any visual basic program. | | |
| | | (2 marks) | |
| OHEG | | | |
| _ | TION FOUR (20 marks) | | |
| (a) | In relation to software architecture explain the different tires of the 3-tier a | | |
| (h) | Differentiate between extremet and introduct? | (6 marks) | |
| ` ' | Differentiate between extranet and intranet? | (2marks) | |
| (6) | Explain the differences between the picture box and the image box as used | | |
| (d) | basic programming. Write a HTML code to show how to display a table in any HTML docume | (4marks) | |
| (u) | Write a HTML code to show how to display a table in any HTML docume | (4 marks) | |
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| (4 marks) | | |
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| (2 marks) | | |
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| nstruct | | |
| (4 marks) | | |
| (1 mark) | | |
| (ii) Write the code to show how to add comments in any HTML document. | | |
| (1 mark) | | |
| (3 marks) | | |
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