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COURSE CODE: scs 211

COURSE TITLE: VISUALBASIC PROGRAMMING

DATE: April, 2014

TIME: 3 Hrs

INSTRUCTIONS

- Answer **Questions ONE** and **ANY OTHER TWO**.

Section A

- 1 a) Give three examples of an event in VB (3mks)
- b) Explain what you know about the process of debugging. (2mks)
- c) Write a code to close a form (2mks)
- d) State features used for Graphical User Interfaces? (3 mks)
- e) State one feature of Event- Driven Programming (2mks)
- f) In Visual Basic we work with objects, state what each object encompasses. (3mks)
- g) What is the purpose of the Toolbox in visual basic? (2mks)
- h) Explain how would you get the Design window to display if it is not visible in your project? (2mks)
- I) State valid steps for developing a Visual Basic application? (3 mks)
- j) State the object one will use if he wants to display text which cannot be modified by the user. (2mks)
- k) Distinguish between single document interface and multiple document interface. Write one example each of SDI and MDI type application. (4mks)
- l) With an example explain what you know about an array (2mks)

Section B

2 a) state and explain 3 tools used to outline the solution to a problem (6mks)

b) Write VB code that one can use to display the words “Visual Basic” in a label named lblTitle? (3mks)

c) You want to find the perimeter of a rectangular room whose sides are represented by dblLength and dblWidth. Write VB statement to find the perimeter of this room (3mks)

d) Write a program for C above (6mks)

e) State any two types of errors (2mks)

3 a) Explain how you can display the Code window in visual basic (3mks)

b) What is the value of intE after the following section of code is executed? (3mks)

```
Dim intC As Integer
```

```
Dim intD As Integer
```

```
Dim intE As Integer
```

```
intC = 20
```

```
intD = 3
```

```
intE = intC \ intD
```

c) State any **four** valid rules for naming variables in visual basic? (4mks)

d) Write VB code to find the average of 5 numbers input via an input box and displays the result in lblResult using a Do While statement? (8mks)

e) What is the differences between Pseudocode and Flowchart? (2mks)

4 a) What is wrong with the following code? (3mks)

```
intCount = 0
```

```
Do While intCount < 10
```

```
lstOutput.Items.Add ("Good Job")
```

```
Loop
```

b) What is System Development Life Cycle? Explain all the stages in the System Development Life Cycle.(6mks)

c) Write an algorithm to accept a 3 digit number and find the sum of its digits.(9marks)

d). Discuss various Visual Basic file extensions. (2mks)

5 a) Discuss global and local scope of a variable with example (4mks)

b) Design a simple arithmetic calculator. (Write your steps and code) (8mks)

c) Explains runtime error, logical error, and syntax error with examples.(6mks)

d). What are the advantages of using functions? (2mks)