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KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION, 2017/2018 ACADEMIC YEAR
DIPLOMA IN BUSINESS INFORMATION TECHNOLOGY

DBT 1102 - VISUAL PROGRAMMING

Date: 27th July, 2017.

Time: 3.00pm –5.00pm

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

- a) Write one line of code to perform the following tasks;
- (i) Display the text “Programming is great” on a label lbTrial (2 Marks)
 - (ii) To clear text form a text box txttrial(2 Marks)
 - (iii)Add items “Apple”,”Mangoe”,”Orange”, to a comboboxcbotrial (2 Marks)
- b) With the aid of examples, describe Two data operators supported by VB.Net (4 Marks)
- c) Discuss three types of errors encountered during program development (6 Marks)
- d) Write the code of a program that computes the total sales on items. The user inputs the unit price and the quantity sold through text boxes. The total sales are displayed through a label. (8 Marks)
- e) Objects in Visual Basic have properties. Describe any Three properties of a command button (6 Marks)

QUESTION TWO (20 MARKS)

- a) Describe two types of forms used in VB.net (4 Marks)
- b) List Five controls used in VB.net and state their use (10 Marks)
- c) Variables to be used in programming are declared first. Of the following variables, state with reasons which one are valid and which one are not: (6 Marks)
- i. Svar
 - ii. String
 - iii. Int

QUESTION THREE (20 MARKS)

- a) Write a program to calculate the sum of the first 6 positive integers using the Do... while loop (8Marks)
- b) Rewrite the above code using the For..Nextloop . (8Marks)
- c) Differentiate between the following (4 Marks)
 - i. Name and text properties in a control
 - ii. Implicit and explicit declaration

QUESTION FOUR (20 MARKS)

- a) Write a code for a windows application to accept inputs for the dimensions of a rectangle through the text boxes and then compute the area and perimeter of the rectangle. The Area and Perimeter should be displayed through a Message Box. (10 Marks)
- b) Differentiate between the following looping constructs (give general syntax of each); 'while ... loop' and 'do... while loop'. (10 Marks)

QUESTION FIVE (20 MARKS)

- a) A program is required to process and award students grades for students in a class according to the following summary table.

Marks%	Grade
80 – 100	A
60 – 79	B
40 – 59	C
Below 40	Fail
Any other	invalid

- Write a code for a vb program that prompts the user for the student's Marks and outputs the appropriate grade. (10 Marks)
- b) List any four rules used when naming variables (Identifiers) (4 Marks)
 - c) Explain the meaning of the following Visual Basic code. (6 Marks)
 - i. Dim Test(5) as Integer
 - ii. ReDim Test(15) as Integer