



PAN AFRICA CHRISTIAN UNIVERSITY

DICT, BBIT

END OF TERM EXAMINATION

DEPARTMENT: COMPUTING & INFORMATION TECHNOLOGY

COURSE CODE: DICT0131

CAMPUS: ROYSAMBU

COURSE TITLE: EVENT DRIVEN PROGRAMMING

EXAM DATE: DAY OF WEEK, DATE (DDTH MONTH YEAR)

TIME: START HOUR – END 13:00-17:00 HRS

INSTRUCTIONS

- This exam script has **TWO (2)** sections.
- Read all questions carefully before attempting.
- Answer All questions in Section **A** and any other THREE questions in Section **B**.
- Write only your **student number** on the answer booklet provided.
- None programmable calculators permitted
- Calculators on phones, tablets and computers are NOT permitted in Theory Papers

SECTION A

(Answer ALL questions in this section)

Question 1

Study the interface below and answer the questions that follow

The screenshot shows a Windows application window titled 'Form1'. Inside the window is a light gray area containing a yellow-orange group box titled 'Personal Details'. Within this group box, there are three controls: a text box for 'First Name', a text box for 'Surname', and a dropdown menu for 'Gender'. The dropdown menu is currently open, showing 'Male' and 'Female' as options. Below the group box is a gray button labeled 'SAVE'.

- a) State the significance of the control named personal details in event driven programming **(1 Mark)**
- b) Identify the control used to choose gender **(1 Mark)**
- c) Describe TWO ways to add items in the control used to choose gender **(2 Marks)**
- d) Write a code snippet that changes the background color to green **(2 Marks)**
- e) Write a VB program that displays the details captured by the controls in the personal details group box on a message box **(4 Marks)**

QUESTION 2

- a) Explain TWO drawbacks occasioned by use of arrays in event driven programming **(4 Marks)**
- b) Using your knowledge on arrays, write an event driven program to display the first six months of the year 2025 **(6 Marks)**

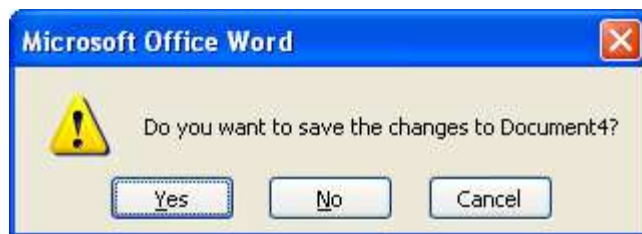
QUESTION 3

- a) Write a program to prompt for your first name and surname through an input box, and then display them as full name through a message box **(5 Marks)**
- b) Demonstrate how conditional structures can be used to regulate the flow of execution in an event driven program. **(5 Marks)**

QUESTION 4

- a) Explain the following code snippet **(2 Marks)**

```
Private Function multiply ( )  
    val1 = Val (Text1.Text)  
    val2 = Val (Text2.Text)  
    result = val1 * val2  
    Text3.Text = result  
End Function
```
- b) Describe the steps of adding design time controls on to a form **(4 Marks)**
- c) Write a code that create the following dialog box **(4 Marks)**



QUESTION 5

- a) The following is a log in form. Write the code that will enable the user to proceed if and only if a correct password is entered on the textbox, on click of the

proceed button. (Use admin as the password). The program should not allow empty password. **(5 Marks)**



- b) You are required to write a program to evaluate age of clients before they can be admitted for a function. Using appropriate control structures, devise an event driven code that will enable the display of the comments based on the following table: **(5 Marks)**

<i>age</i>	<i>comments</i>
<i>Less than 14</i>	<i>Not allowed</i>
<i>14-17</i>	<i>Allowed upto 6 pm</i>
<i>18-25</i>	<i>Allowed up to 10 pm</i>
<i>Above 25</i>	<i>Unlimited stay</i>

QUESTION 6

- a) Explain the significance of any FOUR types of design time controls **(4 Marks)**
- b) Using appropriate control structure, write an event driven program to list all ODD numbers between 50 and 150 on a list box in descending order **(6 Marks)**

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