



PAN AFRICA CHRISTIAN UNIVERSITY

BSIT/BIT

END OF TERM EXAMINATION

DEPARTMENT: COMPUTING & INFORMATION TECHNOLOGY

COURSE CODE: BSIT208

CAMPUS: ROYSAMBU

COURSE TITLE: EVENT-DRIVEN PROGRAMMING

EXAM DATE: WEDNESDAY, DATE (DDTH MONTH YEAR)

TIME: START HOUR – END 08:00-11:00 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 Visual Basic form titled 'Form1'. It has a light beige background and a blue border. The form contains the following controls:

- A group box titled 'Select your make' with two radio buttons labeled 'Toyota' and 'Subaru'.
- A group box titled 'Select your Model' with two checkboxes labeled 'Double Cabin' and 'Saloon'.
- A large text box labeled 'Describe your car'.
- Two buttons at the bottom labeled 'Process' and 'Exit'.

- a) State the significance of the control named 'select your make' **(2 Mark)**
- b) Write a code segment that changes the text color to red **(2 Marks)**
- c) Explain how the controls used to select your make differ from those used to select your model **(2 Marks)**
- d) Write a visual basic program that displays the details captured in the 'select your make' and those from 'select your model' group boxes on the list box, on click of the process button **(4 Marks)**

QUESTION 2

- a) Explain TWO functions of arrays in the development of event-driven programs **(4 Marks)**
- b) You intend to visit a grocery for some fruits. Using your knowledge of arrays, write a visual basic program to display six of your favorite fruits **(6 Marks)**

QUESTION 3

- a) A program is required to prompt two numbers through an input box, multiply them and display the answer in a message box. Write this code in VB.

(4

Marks)

- b) Using code snippets, demonstrate how switch case and looping control structures can be used to regulate the flow of execution in a program. **(6 Marks)**

QUESTION 4

- a) With the aid of a code snippet, explain the TWO types of run time controls

(4

Marks)

- b) Write an event-driven program that displays the details captured by the controls within the personal details group box on a message box. **(6 Marks)**

The image shows a screenshot of a Windows-style form titled "Personal Details". It contains three labeled text boxes: "First Name", "Surname", and "Gender". The "Gender" box is a dropdown menu with "Male" and "Female" as visible options. Below these fields is a "SAVE" button.

QUESTION 5

- a) Describe the process of connecting a VB form to the MS Access database

(4

Marks)

- b) Using conditional control structures, devise the appropriate code that will enable the display of the grade of learners based on the following table: **(6 Marks)**

<i>marks</i>	<i>grade</i>
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EXAMINATIONS PAPER



<i>0-39</i>	<i>FAIL</i>
<i>40-59</i>	<i>PASS</i>
<i>60-69</i>	<i>CREDIT</i>
<i>70-99</i>	<i>DISTINCTION</i>

QUESTION 6

- a) Explain THREE Logical operators in event-driven programming **(6 Marks)**
- b) Using a code snippet describe the usage of any TWO logic operators mentioned in
(a) above **(4 Marks)**

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