UNIVERSITY EXAMINATIONS: 2025/2026

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

BSIT 302

OBJECT ORIENTED PROGRAMMING II

END TERM EXAMINATION

DATE: APRIL, 2026 **TIME: 2 HOURS**

INSTRUCTIONS: Question One is Compulsory, Choose Three Other Questions

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SECTION A (Answer ALL questions in this section)

QUESTION 1

a) Explain TWO ways to implement abstraction in OOP **(2 Marks)**

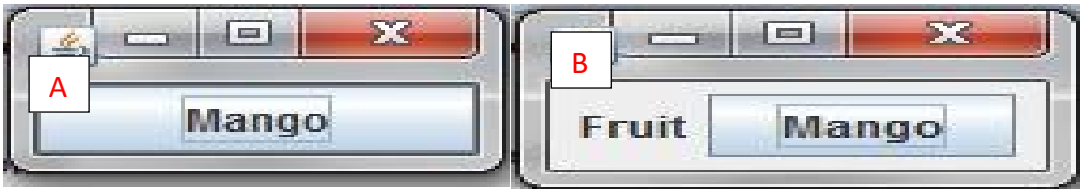
b) State the importance of using finally clause in exception handling **(2 Marks)**

c) Explain the rationale for destructors in object-oriented programming **(2 Marks)**

d) Distinguish a component from a container as used in object-oriented programming. **(2 Marks)**

e) Austin writes a program with the intention of getting output **B**, but he gets output **A** instead. Write the code snippet that Austin should include to give him output **B**

(2 Marks)

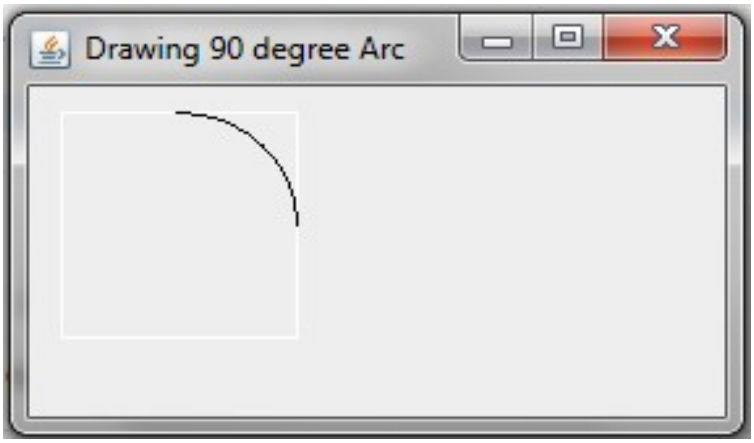


SECTION B
(Answer any THREE (3) questions in this section)

QUESTION 2

a) Explain any TWO parts that make up a GUI program. **(4 marks)**

b) Write a java program that would give the following GUI. **(6 marks)**



QUESTION 3

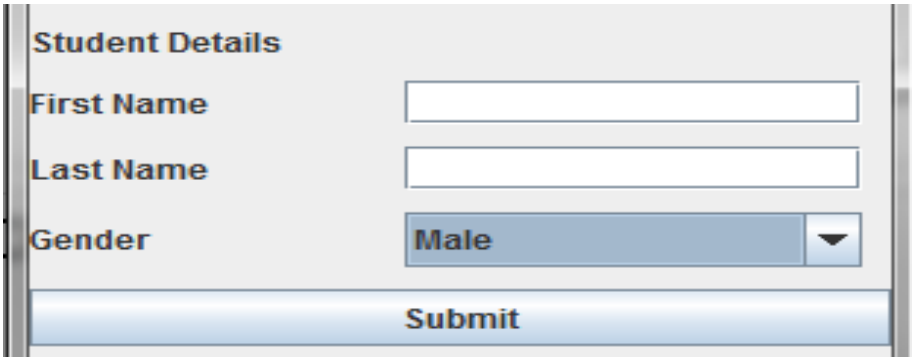
a) Explain how dynamic and static binding promote advanced programming **(4 Marks)**

b) Describe any THREE ways to manipulate a file in OOP **(6 Marks)**

QUESTION 4

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a) Explain the OOP technique used to achieve the following GUI **(2 Marks)**



b) Write a java program that would result to the GUI shown in a) above **(8 Marks)**

QUESTION 5

a) Explain TWO reasons for use of methods in writing OOP programs. **(4 Marks)**
b) Write a java program describing the application of at least TWO types of methods found in object-oriented programming

(6 marks)

QUESTION 6

a) Explain the significance of any TWO access specifiers found in OOP **(4 marks)**
b) Write a java program that will allow you to enter length and width of a rectangle on JTextFields and enable you click on a Jbutton to compute the area of the rectangle. The program should then give the results through a JLabel**(6 marks)**

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