

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION **SEMESTER II SESSION 2023/2024**

COURSE NAME

JAVA PROGRAMMING

COURSE CODE

BIT 33803

PROGRAMME CODE : BIT

EXAMINATION DATE :

JULY 2024

DURATION

: 3 HOURS

INSTRUCTIONS

: 1. ANSWER ALL QUESTIONS

2. THIS FINAL EXAMINATION IS

CONDUCTED VIA

☐ Open book

3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION

CONDUCTED VIA CLOSED BOOK

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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- Q1 Determine whether each of the following statements is TRUE or FALSE.
 - (a) A static variable is a variable shared by all instances of the same class.

(2 marks)

(b) A superclass inherits accessible data fields and methods from its subclass.

(2 marks)

(c) A final class cannot be inherited.

(2 marks)

(d) A class can extend only one superclass but can implement one or more interfaces.

(2 marks)

(e) All methods in an abstract class must be declared as abstract methods.

(2 marks)

- Q2 Determine whether each of the following segment codes is **VALID** or **INVALID**. If **INVALID**, Justify your answers.
 - (a) JComboBox jcboColor = new JComboBox("Red", "Green", "Blue");

(2 marks)

(2 marks)

(c) Font myFont = new Font("SansSerif ",16,Font.BOLD);

(2 marks)

(d) public interface AnimalSound {
 public void Cat() {
 System.out.println("Meow.. Meow..");
 }
}

(2 marks)

(2 marks)

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Q3 Determine the output of the segment code in Figure Q3.1.

(4 marks)

Figure Q3.1

Q4 Answer Q4(a) - Q4(c) based on Figure Q4.1.



Figure Q4.1

(a) Write a Java Swing program to create Graphical User Interface (GUI) application as shown as in **Figure Q4.1**.

(12 marks)

(b) Discuss the main elements of GUI applications.

(10 marks)

(c) Based on The Delegation Event Model, explain how the event handling process involved when a user clicks the button in **Figure Q4.1**.

(10 marks)

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Q5 Write a Java Swing program to create a GUI application as shown as in Figure Q5.1.

(24 marks)

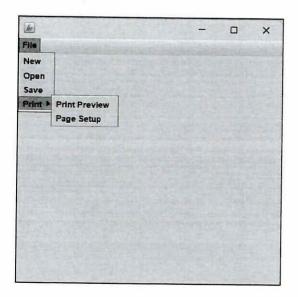


Figure Q5.1

- END OF QUESTIONS -

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