



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
(ONLINE)
SEMESTER II
SESSION 2019/2020**

COURSE NAME : JAVA PROGRAMMING
COURSE CODE : BIT 33803
PROGRAMME CODE : BIT
EXAMINATION DATE : JULY 2020
DURATION : 3 HOURS
INSTRUCTION : 1. ANSWER ALL QUESTIONS.
2. THE STUDENTS SHOULD
UPLOAD THE ANSWER BOOKLET
(PDF/ WORD FORMAT) WITHIN 30
MINUTES AFTER EXAMINATION
PERIOD

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Instruction: Answer **ALL** questions.

Q1 (a) Name **THREE (3)** methods from `class JOptionPane` that are used for input and output. (3 marks)

(b) What is the name of the package that contains the class described in **Q1(a)**? (2 marks)

Q2 (a) What method is used to create dialog boxes? (2 marks)

(b) Write a Java code to create.

i. An input dialog box.

(2 marks)

ii. A message dialog box.

(2 marks)

Q3 A program contains the following method:

```
public static void display(int arg1, double arg2, char arg3)
{
    System.out.println("The value are " + arg1 + ", " + arg2 +
        ", and " + arg3);
}
```

(a) Write a statement that invokes the above method and passes the following variables as arguments:

```
char initial = 'T';
int age = 25;
double income = 5000.00;
```

(3 marks)

(b) What is the output if the above method is invoked?

(3 marks)

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Q4 Consider the following Java code:

```
int lowerLimit;
...
try
{
    System.out.println("Entering the try block.");
    if (lowerLimit < 100)
        throw new Exception ("Lower limit violation.");
    System.out.println("Exiting the try block.");
}
catch (Exception e)
{
    System.out.println("Exception : " + e.getMessage());
}
System.out.println("After the catch block");
```

- (a) What is the output if the value of `lowerLimit` is 50? (3 marks)
- (b) What is the output if the value of `lowerLimit` is 150? (3 marks)

Q5 Consider the following program segment:

```
//import classes

public class Job
{
    public static void main(String[] args)
    {
        //variable declaration
        //executable statements
    }
}
```

- (a) Write a Java statement that imports the **class** `Scanner`. (1 mark)
- (b) Write a Java statement that declares `console` to be a `Scanner` object for inputting data from the standard input device. (2 marks)
- (c) Write a Java statement that declares the following variables: `num1` and `num2` of type `int`. (2 marks)
- (d) Write Java statements that prompt the user to input two integers, store the first number into `num1`, and store the second number into `num2`. (4 marks)

Q6 Write necessary Java statements to create the following GUI components:

(a) A JLabel with the text string "Enter your name:". (2 marks)

(b) A JButton with the text string "Click!". (2 marks)

(c) The title "Java Programming" for an existing window. (1 mark)

Q7 Write a Java statement that creates the output dialog box shown in **Figure Q7**.

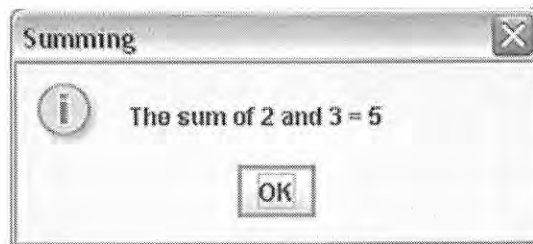


Figure Q7

(10 marks)

Q8 Given the following Java program to calculate the area of a circle:

```
import javax.swing.*,
import java.awt.*;
import java.awt.event.*;

public class Circle extends JFrame
{
    private JLabel radiusL, area;
    private JTextField radiusTF, areaTF;
    private JButton calculateB;
    private Container pane;
    private CalculateButtonHandler cbHandler;

    private static final int WIDTH = 300;
    private static final int HEIGHT = 100;

    public Circle ()
    { // Create GUI for class CircleProgram }

    public static void main(String[] args)
    { Circle cirObject = new Circle ();
    }
}
```

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Define the constructor `Circle()` for above `class Circle()` to display the following GUI output as in **Figure Q8**:

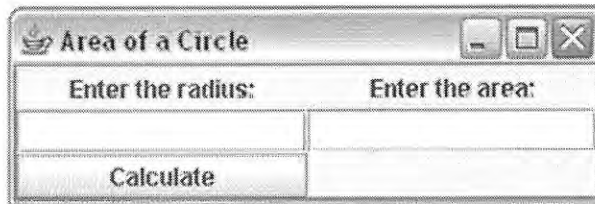


Figure Q8

(13 marks)

- END OF QUESTIONS -

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