# Final Exam

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# How Long ?

3 hours

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# How Many Questions?

- **Question 1 – *Multiple Choice* – 20 marks**
  - 20 questions to answer

- **Question 2 – *Short Answers* – 10 marks**
  - 5 questions to answer

- **Question 3 – *Program Coding* – 20 marks**
  - 4 questions to answer; each may have multiple tasks

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# Multiple Choice

An exception code contains two catch clauses: Exception and IOexception. Is the order of them important?

a. No.
b. You cannot have multiple catch clauses at all.
c. Yes, Exception should be caught first.
d. Yes, IOexception should be caught first.

# Multiple Choice

What is the result of compiling the following code?

```java
public class Test {
    public static void main ( String[] args) {
        int value;
        value = value + 1;
        System.out.println(" The value is : " +
    value);
    }
}
```

a. Compile and runs with no output.
b. Does not compile.
c. Compiles and runs printing out "The value is 1".
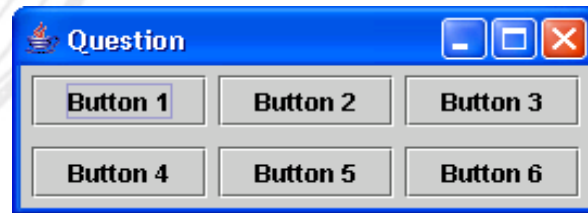d. Compiles but generates run time error.

# Short Answers

What are the runnable and blocked states of a Java thread?

# Program Coding

Write a program that meets the following requirements, as shown in the following figure.



a)      Create a frame, set its content pane's layout to `BorderLayout` and add two panels to the south and center of the content pane;

b)      Add 3 buttons to each of the panel;

c)      When a button is clicked, display a message dialog box indicating which button has been clicked.

# How to Pass the Subject ?

The sum of assignments, labs and final exam marks **≥ 50**

# **AND**

The marks of the final exam **≥ 20**   (40% of the exam marks)

# How to Prepare the Final Exam ?

- Revise the topics and discussions in the lecture (notes) along with a reference book

- Revise lab exercises and assignments