

**BACHELOR OF COMPUTER APPLICATION
FOURTH SEMESTER
PROGRAMMING WITH JAVA
BCA-402**

**SET
B**

[USE OMR FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

(Objective)

Marks: 20

1X20=20

Choose the correct answer from the following:

1. What is method overloading in Java?
 - a. Having two methods with the same name but different return types
 - b. Having methods that can override each other
 - c. Having multiple methods within a class with the same name but different parameters
 - d. Having only one method in a class
2. State TRUE or FALSE.
 - i) A Java class provides encapsulation.
 - ii) A Java method can have the same name as the class name.
 - a. TRUE, TRUE
 - b. FALSE, TRUE
 - c. TRUE, FALSE
 - d. FALSE, FALSE
3. Which among the following best defines single level inheritance?
 - a. A class inheriting a base class
 - b. A class inheriting a derived class
 - c. A class inheriting a nested class
 - d. A class which gets inherited by 2 classes
4. An Overridden method is the method ofclass and the overriding method is the method ofclass.
 - a. sub, sub
 - b. sub, super
 - c. super, super
 - d. super, sub
5. "What is the output of Java program with SWITCH?
int num=20;
switch(num)
{
case 10: System.out.println("TEN"); break;
case 20: System.out.println("TWENTY"); break;
case 30: System.out.println("THIRTY");
}"
 - a. TEN
 - b. TWENTY
 - c. THIRTY
 - d. TEN TWENTY

6. Variables that are declared, but not initialized, contain.....
 - a. blank spaces
 - b. zeros
 - c. garbage values
 - d. nothing - they are empty
7. Default constructor has.....arguments.
 - a. No argument
 - b. One Argument
 - c. Two Argument
 - d. None of these
8. Which of these method of Thread class is used to Suspend a thread for a period of time?
 - a. suspend()
 - b. terminate()
 - c. stop()
 - d. sleep()
9. Which of these method of Thread class is used to find out the priority given to a thread?
 - a. get()
 - b. ThreadPriority()
 - c. getPriority()
 - d. getThreadPriority()
10. What is a thread in java?
 - a. A lightweight process that runs independently within a program
 - b. A data structure to store variables
 - c. A type of loop
 - d. A synchronization mechanism
11. What is the output of the Java code snippet with Ternary operator?
 int num = TRUE?10:20;
 System.out.println(num);
 - a. 10
 - b. 20
 - c. 0
 - d. Compiler error
12. If the movie 'Baahubali ' was watched by 4 crore people and the average ticket price was Rs. 42.25, which data type will you use to store the collections of the movie?
 - a. int
 - b. string
 - c. float
 - d. None of the above
13. For ilish and Fish class, correct way of inheritance is
 - a. class ilish extends Fish
 - b. class Fish extends ilish
 - c. Both are correct way
 - d. None is correct way
14. The method called the first time an applet is loaded into the memory of a computer.
 - a. start()
 - b. init()
 - c. stop()
 - d. destroy()

```
public class Hello
{
    public static void main(String[] args)
    {
        System.out.println("BINGO");
    }
}
```

- a. bingo
b. BINGO
c. Compiler error
d. Run time error

19. What is the Message is displayed in the applet made by the following Java program?

```
import java.awt.*;
import java.applet.*;
public class myapplet extends Applet
{
    public void paint(Graphics g)
    {
        g.drawString("A Simple Applet", 20, 20);
    }
}
```

- a. A Simple Applet
b. A Simple Applet 20 20
c. Compilation Error
d. Runtime Error

20. Which of these functions is called to display the output of an applet?
- a. display() b. paint()
c. displayApplet() d. PrintApplet()

(Descriptive)

Time : 2 hrs, 30 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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|---|--------|
| 1. Explain java virtual machine. Differentiate between primitive and non-primitive data types | 5+5=10 |
| 2. Rekha wants to eat omelet which is made by two eggs from hen and duck. Write an inheritance program that matches the above condition | 10 |
| 3. Explain Jump in Loops, Jump out of Loops with a suitable example program | 10 |
| 4. a) Explain the life cycle of thread.
b) Explain the life cycle of Applet. | 5+5=10 |
| 5. Write a java program to implement multilevel inheritance in package | 10 |
| 6. Differentiate between function overloading and function overriding in java | 10 |
| 7. Write a java program to demonstrate thread priority. | 10 |
| 8. Write a java program to implement parameterized constructor in java | 10 |

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