

**BACHELOR OF COMPUTER APPLICATION
FOURTH SEMESTER (REPEAT)
PROGRAMMING WITH JAVA
BCA-401 (OLD COURSE)
[USE OMR FOR OBJECTIVE PART]**

**SET
A**

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

(Objective)

Marks: 20

1X20=20

Choose the correct answer from the following:

1. 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
2. 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
3. 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
4. The method called the first time an applet is loaded into the memory of a computer.
a. start()
b. init()
c. stop()
d. destroy()
5. Which interface is used to create thread in java?
a. Processor
b. Thread
c. Threadable
d. Runnable
6. What is true about a break?
a. Break stops the execution of entire program
b. Break halts the execution and forces the control out of the loop
c. Break forces the control out of the loop and starts the execution of next iteration
d. Break halts the execution of the loop for certain time frame
7. Which of the following is not a decision making statement?
a. if
b. if-else
c. switch
d. do-while

8. What is the output of the below Java program if the program is save as bingo.java?

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

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

9. 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

10. Which of these functions is called to display the output of an applet?

- a. display()
- b. paint()
- c. displayApplet()
- d. PrintApplet()

11. 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
- d. Having only one method in a class

12. 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

13. 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

14. 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

15. "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

16. Variables that are declared, but not initialized, contain.....

- a. blank spaces
- b. zeros
- c. garbage values
- d. nothing - they are empty

17. Default constructor has.....arguments.

- a. No argument
- b. One Argument
- c. Two Argument
- d. None of these

18. 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()

19. 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()

20. 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

(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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