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SUBJECT CODE NO: - BB-2438
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (CBCGS) (Pattern 2022) T.Y SEM V
Examination November / December 2024
Computer Science-XVIIA Programming in Core JAVA

[Time: 1:30 Hours]**[Max. Marks: 40]**

Please check whether you have got the right question paper.

N. B

- (1) All questions are compulsory
- (2) All questions carry equal marks

Q1 (a) Define the term Class and Objects? Discuss the concept of Constructor with suitable example? **10**

OR

- (b) How to define a package? How to access, import a package? Explain with example.
- (c) What is interface? What is use of interface?

Q2 (a) WAP to read number from user and check it is Prime or not. If given number is negative or zero then throw exception and give message "Enter number greater than zero". **10**

OR

- (b) Write a program to demonstrate any five string operations using string class.
- (c) What is multithreading? Explain the concept of thread priority.

Q3 Write short on (Any two)

10

- (a) Method Overriding
- (b) Exception handling in Java
- (c) Compare Method overriding & overriding
- (d) Access Specifier in JAVA



Q4 Multiple choice questions:

10

1. Which component of Java is responsible for running the compiled Java bytecode?
 A. JDK B. JVM C. JRE D. JIT
2. What is the purpose of the PATH environment variable in Java?
 A. To locate Java libraries B. To store Java byte code
 C. To locate the Java compiler D. To optimize Java code

3. What does the following Java code print?

```
int x = 101;
int y = x++;
System.out.println(y);
```

A. 101 B. 102 C. Syntax Error D. None of the above
4. Which of the following is true about the anonymous inner class?
A. It has only methods B. Objects can't be created
C. It has a fixed class name D. It has no class name
5. The correct syntax to import the math library in java is _____.
A. import java.lang.math B. import math
C. import java.math D. All of these
6. What is string Buffer in java?
A. Class to create a string array
B. Class to create a mutable string in java
C. Class to create a string from i/o buffer
D. All of these
7. Empty interface in Java is called?
A. Marker interface B. Abstract class
C. Derived class D. None of these
8. Multithreading in java is
A. Blocking threads B. Executing multiple processes simultaneously
C. Creating more threads at a time D. All of these
9. What will be the output of following Java code? public class Main

```
public class Main {
    public static void main(String[] args) {
        System.out.println(Math.copySign(300.6, -200.6));
    }
}
```

- A. 100.6 B. -100.6 C. -300.6 D. 200.6
10. Which of these is true for interfaces in java?
A. The keyword interface is used to create a method
B. All the methods of an interface are abstract
C. It does not contain constructors
D. All of these

