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SUBJECT CODE NO: BB-2352
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (CBCGS) (Pattern 2022) T.Y SEM V
Examination November / December 2025
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) Explain various operators in Java.

10**OR**

- b) Write a program that illustrates the abstract class.
- c) Write a Java program to compare two strings.

Q2

a) What are the benefits of inheritance? Explain the various forms of inheritance with suitable code segments.

10**OR**

- b) How to handle multiple catch blocks for a nested try block? Explain with an example.
- c) What is a thread? Describe the complete life cycle of a thread.

Q3 Write short notes on (Any two)**10**

- a) Exception types
- b) Explain the following in detail with example
 - i. Throws
 - ii. Throw
 - iii. finally
- c) Primitive data types in Java
- d) Types of constructors

**Q4 Multiple Choice Questions:****10**

1. What is the default value of a Boolean variable in Java?
 - A. true
 - B. false
 - C. 0
 - D. null
2. Which of these is not a feature of Java?
 - A. Object-oriented
 - B. Platform-independent
 - C. Compiled
 - D. Interpreted language
3. Which of the following methods is used to extract the length of a string in Java?
 - A. length ()
 - B. len ()
 - C. sizeof ()
 - D. size ()

4. Which of these is a non-access modifier?
 - A. public
 - B. private
 - C. native
 - D. All of these
5. What is the purpose of abstract methods in Java?
 - A. To declare abstract methods
 - B. To provide a base class with common methods and fields
 - C. To make a class final
 - D. None of these
6. Can a class implement multiple interfaces in Java?
 - A. Interfaces cannot be implemented by classes
 - B. Only abstract classes can implement interfaces
 - C. No, a class can only implement one interface
 - D. Yes, a class can implement multiple interfaces
7. When do exceptions in Java arise in a code sequence?
 - A. Run Time
 - B. Compilation Time
 - C. Can occur any time
 - D. None of the mentioned
8. Which of these keywords is used to manually throw an exception?
 - A. try
 - B. finally
 - C. throw
 - D. catch
9. Which of the following methods is a method of wrapper Integer for obtaining the hash code for the invoking object?
 - A. int hash ()
 - B. int hashCode ()
 - C. int hashCode ()
 - D. Integer hashCode ()
10. What will be the output of the following Java program?

```

class Output
{
    public static void main (String args [])
    {
        Integer i = new Integer (277);
        float x = i.floatValue();
        System.out.print(x);
    }
}

```

A. 0 B. 1
 C. 277 D. 277.0