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SECOND YEAR (BSc Computer Science)
COM24101: Object Oriented Programming Using Java
(Semester IV)

Program: BSc Computer Science

Program Specific: BSc (comp05)

Course Type: S.Y.BSc (Computer Science)

Paper: COM24101 - Object Oriented Programming Using Java

Credits: 2

Time: 2 Hours

Max. Marks: 30

SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labeled diagram wherever necessary.

SECTION: A

Q1) Answer the following

[5 X 1= 5]

1. What is an exception in Java?
2. What is file handling in Java?
3. “A final keyword cannot be overridden”. State true/false and justify.
4. What is the use of the toString() method in Java?
5. Give the types of access specifiers.

SECTION: B

Q2) Answer the following (Attempt any 5)

[5 X 2 =10]

1. What is a stream in Java? Explain input and output streams.
2. How do you declare a 1D and 2D array in Java?
3. What is a static block in Java? Explain with an example.
4. Describe the user defined exceptions with an example.
5. What are the different ways to accept user input in Java? Briefly explain any one method.
6. What is a package in Java? Give an example.
7. Why multiple inheritance is not supported in java?

SECTION: C

Q3) Answer the following (Attempt any 2)

[2 X 5 = 10]

1. Explain try catch block with example.
2. What is inheritance? Explain multilevel inheritance with an example.
3. What are Constructors? Explain constructor overloading in Java with an example.
4. Explain method overriding and runtime polymorphism with an example.

SECTION: D

Q4) Answer the following (Attempt any 1)

[5 X 1 = 5]

1. Write a Java program to define an interface Shape with methods area() and perimeter(). Implement this interface in two classes, Circle and Rectangle, and display the area and perimeter for both.
2. Create a Student class with attributes rollNo, name, and marks. Write a program to store details of 5 students using an array of objects and display them.

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