

3RD SEM./ CS&E/IT/2022(W)

Th4 OBJECT ORIENTED METHODOLOGY

Full Marks: 80

Time- 3 Hrs

Answer any five Questions including Q No.1& 2
Figures in the right hand margin indicates marks

1. **Answer All questions** 2 x 10
 - a. Define Data Abstraction.
 - b. Define JVM.
 - c. Write the difference between widening and narrowing type casting.
 - d. What are the different access modifiers in Java?
 - e. `String s="OBJECT ORIENTED METHODOLOGY";`
`System.out.println(s.length());`
Write the output.
 - f. Classify between final and finally statement.
 - g. Define package.
 - h. Write any two methods of input stream.
 - i. What is polymorphism?
 - j. What is the use of NEW keyword?
2. **Answer Any Six Questions** 6 x 5
 - a. Define inheritance. Why multiple inheritance is not supported in Java?
 - b. Define constructor. Classify the different types of constructor.
 - c. Differentiate between compile time polymorphism and run time polymorphism.
 - d. Explain the structure of a java program with example.
 - e. Define stream. Describe the output stream of Java.
 - f. Define variable. Discuss different types of variable in Java.
 - g. Write the object oriented and procedure oriented program.
3. Differentiate between String, String Buffer and String Builder. 10
4. Define package. Write a program to create an user defined package and import it. 10
5. Define exception. Classify the different types of java exception. Write a program using java exception. 10
6. Briefly explain the concepts of OOPS. 10
7. Compare all looping statements available in java with example. 10