

II B. Tech II Semester Supplementary Examinations, December - 2022

JAVA PROGRAMMING

(Common to CSE, IT, CSE(CSBS), & CS)

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions each Question from each unitAll Questions carry **Equal** Marks

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**UNIT-I**

- 1 a) Develop a Java program to demonstrate the behavior of static methods & variables? [7M]  
b) Explain the syntax of various Loop control statements in Java. [7M]

**Or**

- 2 a) Explain how with the help of Command line arguments we can customize the behavior of the main() method. [10M]  
b) Is Java pure object-oriented program or not? Justify your answer. [4M]

**UNIT-II**

- 3 a) What are the special characteristics of constructors in Java. Write a Java program to initialize an object through constructor methods. [7M]  
b) Discuss different types of modifiers in Java and give an example for each modifier. [7M]

**Or**

- 4 a) Differentiate between Method overloading and Method overriding with a Java Program. [7M]  
b) Explain the following keywords in Java with an example program: [7M]  
i) 'this' ii) 'final' keyword

**UNIT-III**

- 5 a) Define Array. How to declare initialize and access multi dimensional Arrays in Java. [7M]  
b) Demonstrate the usage of 'Super' keyword with a Java program. [7M]

**Or**

- 6 a) What is inheritance in java? What are different types of inheritance in java? [7M]  
b) Explain the concept of Dynamic Method Dispatch with a Java program. [7M]

**UNIT-IV**

- 7 a) Describe the Hierarchy of Java exception classes with a neat sketch. [7M]  
b) Explain types of exceptions and explain each keyword involved in exception handling. [7M]

**Or**

- 8 a) Define package and its importance? What are the Different types of packages? How to create and import packages in Java? [7M]  
b) Define path and class path and access control? Give suitable examples. [7M]

**UNIT-V**

- 9 a) Discuss various string manipulation functions in Java. [7M]  
b) With a Java program, explain the various ways to create Threads. [7M]

**Or**

- 10 How to create a JDBC application? Describe the steps involved in the process. [14M]