

II B. Tech II Semester Regular Examinations, August/September - 2021
JAVA PROGRAMMING
(Com to CSE, IT)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions each Question from each unit
All Questions carry **Equal** Marks
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- 1 a) Explain various Key Words available in Java. [8M]  
b) Discuss the rules in Automatic Type Promotion in Expressions. [7M]
- Or
- 2 a) Explain various Operators in Java. [8M]  
b) Write a Java Program to test whether a given character is Vowel or Consonant. [7M]
- 3 a) Explain the concept of call by value with an example. [8M]  
b) Write a Java Program to find sum of natural numbers. [7M]
- Or
- 4 a) Explain the concept of Nesting of Methods with an example. [8M]  
b) Write a Java Program to swap two numbers using bitwise operator. [7M]
- 5 a) Write a Java Program to multiply two matrices. [8M]  
b) Explain the concept of method overloading with an example. [7M]
- Or
- 6 a) Explain the concept of Inhibiting Inheritance of Class using final with a suitable example. [8M]  
b) Write a program to demonstrate the use of arrays as vectors. [7M]
- 7 a) Write the benefits of packages and interfaces. [8M]  
b) What are the advantages of using an Exception handling mechanism in a program? [7M]
- Or
- 8 a) Write a java program that demonstrates how certain exception types are not allowed to be thrown. [8M]  
b) How can we add a class to a package? Write about relative and absolute paths. [7M]
- 9 a) Write briefly on multithreaded programming and inter-thread communication inJava. [8M]  
b) Discuss the procedure to create JDBC Application. [7M]
- Or
- 10 a) Explain JDBC Transaction Management in detail. [8M]  
b) Explain Inter-thread Communication with an example. [7M]

