

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 in Java. [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]



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|----|---|------|
| 1 | a) Discuss the differences between Procedural Programming Language and Object-Oriented Programming language. | [7M] |
| | b) What is meant by byte code? Explain how Java is platform independent | [8M] |
| Or | | |
| 2 | a) Discuss any three OOP Principles with an example. | [7M] |
| | b) Describe the structure of a typical Java program with an example. | [8M] |
| 3 | a) Discuss the significance of Overriding Methods with a program. | [7M] |
| | b) Write a Java method to find minimum values in given two values. | [8M] |
| Or | | |
| 4 | a) Explain the need for Recursive Methods in Java with an example. | [7M] |
| | b) Write a Java program to read a number of any lengths. Perform the addition and subtraction on the largest and smallest digits of it. | [8M] |
| 5 | a) What is an interface? What are the similarities between interfaces and classes? | [7M] |
| | b) Explain the member access mechanism in the inheritance with an example. | [8M] |
| Or | | |
| 6 | a) Explain the procedure to call super class members with an example. | [8M] |
| | b) How can you extend one interface by the other interface? Discuss | [7M] |
| 7 | a) Explain the process of defining and creating a package with suitable examples | [8M] |
| | b) What is an Exception? How is an Exception handled in JAVA? | [7M] |
| Or | | |
| 8 | a) Write a java program that illustrates the application of multiple catch statements | [7M] |
| | b) Write the procedure to a create package with multiple public classes. | [8M] |
| 9 | a) Write a program to create four threads using the Runnable interface | [7M] |
| | b) Discuss various methods for Extracting Characters from Strings | [8M] |
| Or | | |
| 10 | a) How many ways are possible in Java to create multiple threaded programs? Discuss the differences between them. | [8M] |
| | b) Discuss the concepts of Class String Buffer and Class String Builder with an example. | [7M] |

