II B. Tech II Semester Supplementary Examinations, February - 2022
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
~~~~~~~~~~~~~~~~~~~~~~~~~

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]