

**I B. Tech II Semester Supplementary Examinations, March- 2022**  
**OBJECT ORIENTED PROGRAMMING THROUGH JAVA**  
(ECE, EIE, ECT)

Time: 3 hours

Max. Marks: 70

**Answer any five Questions one Question from Each Unit**  
**All Questions Carry Equal Marks**

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**UNITT-I**

1. a) What is JAVA Virtual Machine? Explain in detail the internal architecture of JVM. (7M)
- b) Write a JAVA program to find whether a triangle can be formed or not(The length of three sides are taken as input.). If the triangle can be formed then check whether the triangle formed is equilateral, isosceles, scalene or a right-angled triangle otherwise display "This Triangle is NOT possible." (7M)

Or

2. a) Describe the special characteristics of Constructors and Destructors in JAVA programming. (7M)
- b) Write a JAVA program to illustrate the importance of 'static' keyword. (7M)

**UNITT-II**

3. a) What is meant by Inheritance and why it is important in Object Oriented Programming? Explain different types of inheritance supported in JAVA with example programs. (14M)

Or

4. a) Explain the implementation of dynamic binding in JAVA programming. (7M)
- b) Give general form of the package statement. Give an example package creation statement. (7M)

**UNITT-III**

5. a) Write a JAVA program to create a menu bar and menus in a frame. (7M)
- b) What are the methods supported by KeyListener interface and MouseListener interface? Explain each of them with examples. (7M)

Or

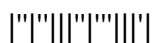
6. a) With a neat diagram, explain the life cycle of Applet. (7M)
- b) Write a JAVA program to simulate mouse move and key pressing. (7M)

**UNITT-IV**

7. a) Write a short note on standard I/O streams in JAVA. (7M)
- b) How to read and write binary files in JAVA? Explain. (7M)

Or

8. a) Explain about delegation event model in JAVA. (7M)
- b) Briefly describe the constructors and methods of RandomAccessFile class. (7M)



Code No: R201212

**R20**

**SET - 1**

**UNITT-V**

9. a) What is a Thread in JAVA? Explain the benefits of using Threads in real time applications. (7M)  
b) Explain Exception handling in JAVA with an example program. (7M)
- Or
- 10 a) Describe the hierarchy of Collection framework in JAVA. (7M)  
b) Describe any four significant methods provided by Socket Class in JAVA. (7M)

