

B.Tech II Year I Semester (R19) Regular Examinations March 2021  
**OBJECT ORIENTED PROGRAMMING THROUGH JAVA**  
 (Common to CSE & IT)

Time: 3 hours

Max. Marks: 70

**PART – A**  
 (Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- Why Java is important to internet?
  - Define Java byte code.
  - What are the two uses of the keyword *super* in Java?
  - Define abstract classes.
  - Differentiate between exception and error.
  - Define serialization.
  - Define thread. How multithreading benefits the programming?
  - Write a short note on java.util.
  - Define an event.
  - What is swing? What is its significance?

**PART – B**  
 (Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 (a) Explain about the OOP concepts: (i) Classes and objects. (ii) Inheritance.  
 (b) Explain the data types available in Java.

**OR**

- 3 (a) What is meant by constructors? Explain overloading of constructors.  
 (b) Write a note on string object. Explain the various methods for string comparison.

**UNIT – II**

- 4 What is the role of packages in Java? How the packages are used in Java? Explain.

**OR**

- 5 Explain different types of inheritance possible in Java.

**UNIT – III**

- 6 Explain the various exception handling mechanisms.

**OR**

- 7 (a) Write a short note on byte stream and character stream.  
 (b) Describe the various methods defined by input stream and output stream.

**UNIT – IV**

- 8 (a) Explain the steps of creating a thread. What are the various methods associated with?  
 (b) Illustrate with a program, creation of multiple threads (at least 3).

**OR**

- 9 (a) What is the importance of ArrayList?  
 (b) Write a program to convert an ArrayList into an array.

**UNIT – V**

- 10 Write a note on: (i) Delegation event model. (ii) Events. (iii) Event sources. (iv) Event listeners.

**OR**

- 11 (a) What are different methods defined by Applet?  
 (b) Explain the basic steps in developing JDBC applications.

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