

**CMR ENGINEERING COLLEGE: : HYDERABAD****UGC AUTONOMOUS****III–B.TECH–II–Semester End Examinations (Supply) - December- 2025****JAVA PROGRAMMING****(ECE)****[Time: 3 Hours]****[Max. Marks: 70]****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART-A****(20 Marks)**

1. a) What is an abstract class? Give an example. [2M]
- b) Differentiate between class and object. [2M]
- c) Why java not support multiple inheritance. [2M]
- d) Define a Package? What is its use in java? Explain. [2M]
- e) What is the difference between error and an exception? [2M]
- f) How do we set priorities for threads? [2M]
- g) What is a java priority queue? [2M]
- h) What is JDBC used for? [2M]
- i) What are the limitations of AWT? [2M]
- j) What are the methods in applet life cycle? [2M]

**PART-B****(50 Marks)**

2. Discuss about the conditional statements in Java with an example. [10M]

**OR**

3. Write a java programs to illustrate overloading & constructor overloading. [10M]

4. Write a java program to demonstrate hierarchical and multiple inheritance using interfaces. [10M]

**OR**

5. Write a java program to find the factorial value of the given number using user defined package concept. [10M]

6. What are the Java Built-in Exceptions? Write the importance of finally block. [10M]

**OR**

7. What is Multithreading? Illustrate the ways to create multiple threads in java. [10M]

8. Illustrate Generic class with an example. [10M]

**OR**

9. Discuss about the JDBC Drivers and How to connecting to databases? Explain. [10M]

10. List out the steps for creating simple user Registration form using java swing with an example. [10M]

**OR**

11. Write the step wise procedure to create and run an applet and list out the event classes and listener interfaces. [10M]

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