



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech III Semester Regular Examinations February -2022

Course Name: OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(Common for CSC & CSM)

Date: 22.02.2022 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. List out any four characteristics of java. 2 M
2. Write down the procedure to import a package. 2 M
3. What are the differences between unchecked and checked exceptions in java? 2 M
4. Define anonymous inner class and static inner class. 2 M
5. What are the two ways of creating a thread in java? 2 M
6. Differentiate between OutputStream class and InputStream class. 2 M
7. Write down the six steps involved in building a JDBC application. 2 M
8. What is the purpose of Random class? List any two core public methods defined by Random class. 2 M
9. How do you make use of mouse related Event classes and their corresponding Event Listener interfaces in java? 2 M
10. Draw the hierarchy of swing containers. 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Explain how you make use of the access specifiers in java with suitable example. 10 M
- OR**
- 11.B). Compare and contrast between final and abstract keywords. Develop a Java program that create an abstract base class Shape with two members base and height, a member method for initialization and a method to compute shapeArea(). Derive two specific classes Triangle and Rectangle which override the function shapeArea(). Use these classes in a main method and display the area of the triangle and the rectangle. 10 M
12. A). What is an inner class? Build a program to demonstrate inner class. 10 M
- OR**
12. B). Explain how to create user defined exceptions. Develop a Java program to create an exception called "InvalidMarksException". Create a method to read student marks within 100. Throw the exception on reading input marks greater than 100. 10 M
13. A). Describe thread priority. With an example discuss how to assign and get the thread priorities. 10 M
- OR**
13. B). What is Multithreading? Explain life cycle of a thread with neat diagram. 10 M

(P.T.O.)