



**B.Tech III Semester Supplementary Examinations, December 2024**

**OBJECT ORIENTED PROGRAMMING**  
(Common to CSE & IT)

Maximum Marks: 70

Date: 09.12.2024

Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
  2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
  3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
  4. Each question carries 10 marks and may have a, b, c, d as sub questions.

**Part-A**

All the following questions carry equal marks (10X2M=20) Marks		CO	Bloom Tx
1	Define the break and continue statements.	1	L1
2	What is a Constructor? Explain about different types of Constructors?	1	L1
3	What is meant by byte code?	2	L1
4	Differentiate between Classes and Interface.	2	L1
5	List the two advantages of user define exceptions handling mechanisms.	3	L1
6	Define thread.	3	L1
7	What is collection framework?	4	L1
8	List any four methods of map interface.	4	L1
9	What is the difference between a Window and a Frame?	5	L1
10	What is a listener?	5	L1

**Part-B**

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	A) Explain different parts of a Java program with an appropriate example. [5M] B) How do we implement polymorphism in JAVA? Explain briefly. [5M]	1	L2
OR			
12	Write short note on the following Object Oriented concepts i) Encapsulation ii) Polymorphism. [10M]	1	L2
13	What are Stream classes? Explain different types of Stream classes. [10M]	2	L2
OR			
14	What is package? What are the benefits of package? Explain Java API packages. [10M]	2	L2
15	Explain Following terms with an Example. [10M] i) try ii) catch iii) finally	3	L2

	OR		
16	Write with an example how java performs thread synchronization. [10M]	3	L2
17	a) What is Java Collection Framework? List out some benefits of Collection framework and explain. [5M] b) Write short note on Date and Calendar classes. [5M]	4	L2
	OR		
18	Write a java code to explain any six methods of HashSet class methods? [10M]	4	L2
19	Explain about the components and containers of AWT. [10M]	5	L2
	OR		
20	a) What is an Event? Explain the role of Event handler in AWT. [5M] b) Explain following components. [5M] 1)Button      2) Label      3) TextField	5	L2