NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

An Autonomous Institution Approved by UGC/AICTE/Govt. of Karnataka
Accredited by NBA (Tier – I) and NAAC 'A+' Grade
Affiliated to Visvesvaraya Technological University, Belagavi
Post Box No. 6429, Yelahanka, Bengaluru – 560 064, Karnataka, India

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MID SEMESTER EXAMINATION-II

Course Title with code	OOP with JAVA(21CS35)	Maximum Marks	30 Marks
Date and Time	03/02/2023, 9.30am-10.30am	No. of Hours	1.0
Course Instructor(s)	Dr. Vijaya Shetty S/Mrs. Shruthi Shetty J		

1. Answer any **two full questions.**
2. Any missing data may assume suitably.

Q. No	Question	MAX MARKS	CO	BL	PO/PSO
1. a	Distinguish between throw and throws with an example.	2	3	2	1,3/1,2
1. b	Devise a Java program to handle NullPointerException and NumberFormatException depending on the number of arguments passed to the main.	6	3	3	1,3/1,2
1. c	Develop a java program to spawn 2 threads from main. One thread generates odd numbers from 1 to 10 and finds sum. Other thread generates even numbers from 1 to 10 and finds sum. The main thread should wait for the threads to complete and then find total sum of odd and even numbers. Use join() to wait for threads to finish.	7	3	3	1,3/1,2
2. a	Discuss any 5 methods of Collection Interface with prototype and description.	5	4	2	1,3/1,2
2. b	Demonstrate the processes of auto-boxing and auto-unboxing of char and Character types for the switch statement in a simple calculator problem.	5	4	3	1,3/1,2
2. c	Write a Java program to create an Arraylist of 5 names and display the list elements using for each style of for loop.	5	4	3	1,3/1,2
3. a	Discuss the creation of custom exception classes in Java with syntax of necessary constructs	5	3	2	1,3/1,2
3. b	Consider the following Linked lists. List1=[XXX,YYY,ZZZ] List2=[AAA,BBB] Devise a Java program to merge List1 and List2 and, display the merged linked list.	5	4	3	1,3/1,2
3.c.	Develop a Java program to create a **Collection** of objects without duplicates and traverse this collection using an Iterator.	5	4	3	1,3/1,2

Faculty Signature	Course Co-Ordinator/Mentor Signature	HoD Signature