Name:	
Enrolment No:	**UPES** UNIVERSITY OF TOMORROW

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, Dec 2022

Program Name : B.Tech. CSE (All Branches)   **Semester** : III
Course Name : Object Oriented Programming   **Time** : 3 hrs
Course Code : CSEG 2020   **Max. Marks : 100**
Nos. of page(s) : 01
Instructions : Answer all the Questions

SECTION A
(5Qx4M=20Marks)

Q. No.		Marks	CO
1	What is the difference between byte and char data types in Java?	4	CO1
2	Formulate when to use abstract classes and interfaces. (min. 4 usage scenarios each)	4	CO2
3	How can we rethrow an exception? Demonstrate the use of the finally block.	4	CO3
4	Contrast the features of the different types of Inner classes.	4	CO4
5	Illustrate the use of different JSP scripting elements.	4	CO5

SECTION B
(4Qx10M= 40 Marks)

6	What is Overloading? Demonstrate Constructor and Function Overloading with suitable code.	10	CO1
7	Interpret the use of the 'final' keyword with variables, methods, and classes with relevant code.	10	CO2
8	Appraise five methods to implement string concatenation with suitable code.	10	CO3
9	Write a detailed note on thread scheduling.	10	CO4

SECTION-C
(2Qx20M= 40 Marks)

10	(a) Discuss establishing JDBC Connection in Java. (10 marks) (b) Explain the different types of JDBC drivers. (10 marks)	20	CO4
11	(a) Sketch and explain the life cycle of a Servlet. (8 marks) (b) Describe the techniques used in Session tracking in Servlets. (12 marks)	20	CO5