


Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <b>End Semester Examination, May 2023</b>			
<b>Course: Java Programming</b> <b>Program: MCA</b> <b>Course Code: CSEG 7014</b>		<b>Semester: II</b> <b>Time: 03 hrs.</b> <b>Max. Marks: 100</b>	
<b>Instructions: Attempt all questions.</b>			
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
S. No.		Marks	CO
Q 1	State the differences between JRE and JVM.	4	CO1
Q 2	Discuss the role of constructor in java with suitable example.	4	CO2
Q 3	Illustrates the concept of inheritance.	4	CO3
Q 4	Differentiate between method overriding and method overloading.	4	CO4
Q 5	Justify the role of super keyword in java.	4	CO1
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
Q 6	Sketch and explain the Servlet Life Cycle in java.	10	CO5
Q 7	Describe all types of JDBC drivers with diagram.	10	CO4
Q 8	Demonstrate the concept of Inner class with suitable example. Or Demonstrate the concept of Multithreading with suitable example.	10	CO4
Q 9	Sketch and explain the JSP Life Cycle in java.	10	CO5
<b>SECTION-C</b> <b>(2Qx20M=40 Marks)</b>			
Q 10	Demonstrate the importance of packages in java. Compare all kind of access modifiers and their visibility with suitable example.	20	CO 3
Q 11	Discuss the concept of exception handling. Consider the following scenarios of exception handling with example: a) Java Multiple Catch block b) Java Finally Block	20	CO 4

- c) Java Throw keyword
- d) Java Throws keyword

Or

Describe the following methods of String class with example:

- a) Take two strings as input and compare the both strings.
- b) Convert the two strings into lowercase and uppercase.
- c) Print the two String into reverse order.
- d) Replace n<sup>th</sup> character of first String by a new character