


Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <b>End Semester Examination, May 2022</b>			
<b>Course: Advanced DBMS</b> <b>Program: BCA</b> <b>Course Code: CSBC 1015</b>		<b>Semester: II</b> <b>Time : 03 hrs.</b> <b>Max. Marks: 100</b>	
<b>Instructions:</b>			
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
S. No.		Marks	CO
Q 1	Discuss the ACID properties of Transaction	4	CO1
Q 2	What is the need for recovery in transactions?	4	CO1
Q 3	List Advantages of Distributed Databases.	4	CO3
Q 4	What are the different types of Big Data? Explain with an example.	4	CO3
Q 5	Explain the Challenges to Maintaining Database Security.	4	CO3
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
Q 6	What is concurrency? Discuss any two issues related to concurrent transaction using examples.	10	CO1
Q 7	Write PL SQL code to check 1) Palindrome number 2) Armstrong number	10	CO2
Q 8	Explain different DDBMS architectures along with diagram. OR Using an example/diagram explain various types of transparencies in DDBMS	10	CO3
Q 9	How do you define big data? Explain four major characteristics of big data. What are the different types of Big Data? Explain with example. Give an Overview of the YARN Architecture.	10	CO4
<b>SECTION-C</b> <b>(2Qx20M=40 Marks)</b>			
Q 10	Elaborate the difference Between Anonymous Blocks and	20	CO2

	<p>Subprograms. Design steps to develop function in PLSQL along with the example. Create a function to increase salary of all employee by 10%</p> <p style="text-align: center;">OR</p> <p>Design PL/SQL code to create an explicit cursor with for loop. Elaborate the concept of implicit and explicit cursor in different application. List attribute of implicit cursor.</p>		
Q 11	How we apply Mandatory Access Control and Role-Based Access Control for Multilevel Security. Elaborate the Relationship Between Information Security and Information Privacy.	<b>20</b>	<b>CO4</b>