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**Enrolment No:** 



## **UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2019**

Course: Introduction to SQL
Program: BCA IOT/BFSI
Course Code: CSBC1005
Semester: I
Time 03 hrs.
Max. Marks: 100

**Instructions: Answer all questions.** 

## **SECTION A**

S. No.		Marks	CO		
Q 1	List the various functions of DBMS with query and example.	4	CO1		
Q 2	2 Differentiate DROP and TRUNCATE commands of SQL with suitable example.				
Q 3	List the various SET operators used in SQL with its functionality.	4	CO3		
Q 4	What is LOB? Give the types of LOB object with its purposes?	4	CO2		
Q 5	State the purpose of Synonym and give the syntax to create a synonym and use it.				
	SECTION B				
Q 6	Define Normalization and its purpose in database design. Discuss INF, 2NF and 3NF with an relevant example.	10	CO1		
Q 7	Explain the three level architecture of DBMS with the diagram.	10	CO1		
Q 8	Discuss on the purpose of GROUP BY and HAVING clause in SQL with suitable example.	10	CO3		

Q 9	Consider the table Product (pid, pname, price, category, manufacturer) and give the query to generate the below given reports  a. Product name who have maximum price b. Product name who have minimum price c. The average price of all products d. The number of products in the company e. Specify the various category in the company  OR  Illustrate the various types of Joins in SLQ with suitable examples.						10	СОЗ	
				SECT	TION-C				1
Q 10	b	examples.(10) Develop a rela Marks)  Make sure Create the should cha  Column Name Key Type Nulls/Unique FK Table FK Column Data type Length  Write suitable Modify as 50	Marks) ation Empl  ID range FK construnge to Nu  ID  NUMBER 7 query to p y the EMP	oyee as below is between 100 aint as on deleted ll  LAST_NAME  VARCHAR2  25  perform following	y 4 DDL queries given specifica 0 and 4000 ing any departs  FIRST_NAME  VARCHAR2  25  ng actions.(4 N	ment the emp  DEPT_ID  DEPT ID  NUMBER  7  Marks)	table id	20	CO2
Q 11	<ul> <li>a. Identify the object used to speed-up the retrieval process of data in oracle using pointers? Discuss on its types and how its created. (10 Marks)</li> <li>b. Define and list the advantages of using views in oracle? Discuss view creation and using it with a sample query. (10 Marks)  OR  <ul> <li>a. State the purpose of Sequence and give the syntax to create a sequence and use it. (10 Marks)</li> <li>b. Discuss the types of database security and the relevant SQL queries to manage them.(10 Marks)</li> </ul> </li> </ul>						w creation ce and use	20	CO4