Name:

Enrolment No:



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

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

	SECTION A			
S. No.	No.			
Q 1	List the various functions of DBMS with query and example.	4	CO1	
Q 2	Differentiate DROP and TRUNCATE commands of SQL with suitable example.	4	CO2	
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.	4	CO4	
	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 catogory in the company OR Illustrate the various types of Joins in SLQ with suitable examples.								CO3
				SEC	FION-C				
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 • Modifi as 50	Marks) ation Emp e ID range e FK constr ange to Nu ID ID NUMBER 7 e query to p y the EMF	loyee as below is between 100 raint as on dele ill LAST_NAME VARCHAR2 25 perform follow	of any 4 DDI given specifica 00 and 4000 ting any depart FIRST_NAME VARCHAR2 25 ing actions.(4 M for longer emp	ation and conservation	straints. (6 o table id	20	CO2
Q 11	 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) b. Define and list the advantages of using views in oracle? Discuss view creation and using it with a sample query. (10 Marks) OR a. State the purpose of Sequence and give the syntax to create a sequence and use it. (10 Marks) b. Discuss the types of database security and the relevant SQL queries to manage them.(10 Marks) 								CO4