C.U.SHAH UNIVERSITY
Summer Examination-2018

Subject Name: Database Systems with ORACLE

Subject Code: 4CS03IDS1   **Branch: B.Sc.I.T.**

Semester: 3   **Date: 26/03/2018**   **Time: 02:30 To 05:30**   **Marks: 70**

Instructions:
(1) Use of Programmable calculator & any other electronic instrument is prohibited.
(2) Instructions written on main answer book are strictly to be obeyed.
(3) Draw neat diagrams and figures (if necessary) at right places.
(4) Assume suitable data if needed.

Q-1   **Attempt the following questions:**   **(14)**

a) What is Data?

b) SQL stands for _____.

c) What is Entity?

d) Write full form of OLAP

e) Define DDBMS

f) What is ETL?

g) What is a Not Null constraint?

h) What is RDBMS?

i) Define Database

j) Define Operator: IN

k) Define Commit command.

l) What is Savepoint?

m) What is Revoke command?

n) Define operator: Any.

Attempt any four questions from Q-2 to Q-8

Q-2   **Attempt all questions**

a) What is Normalization? List and explain types of normalization.   **(07)**

b) Explain Dr. E. F. Codd rules (Any Seven)   **(07)**

Q-3		**Attempt all questions**	
	a)	What is RDBMS? Explain DBMS versus RDBMS.	**(04)**
	b)	List and explain types of SET operator with example.	**(05)**
	c)	What is Sequence? Explain Sequence with example.	**(05)**
Q-4		**Attempt all questions**	
	a)	Write all possible differences between Char versus Varchar2.	**(04)**
	b)	What is a Sub query? List and explain types of sub queries.	**(05)**
	c)	Explain Select statement with all options.	**(05)**
Q-5		**Attempt all questions**	
	a)	Write all possible differences between SQLversus PLSQL.	**(04)**
	b)	What is Join? Explain types of Joins.	**(05)**
	c)	Explain update SQL statement with example.	**(05)**
Q-6		**Attempt all questions**	
	a)	What is data warehouse? What are its main characteristics?	**(07)**
	b)	What are the components of a DDBMS? Describe.	**(07)**
Q-7		**Attempt all questions**	
	a)	What is constraint? Explain Primary key and Foreign Key constraint.	**(04)**
	b)	What is the use of data warehouse? Discuss the architecture of data warehouse and its functionality in detail.	**(05)**
	c)	Explain operators.	**(05)**
Q-8		**Attempt all questions**	
	a)	List and explain the transparency features of a DDBMS.	**(07)**
	b)	What is Business Intelligence? Describe the BI Framework.	**(07)**