

C. U. SHAH UNIVERSITY

Summer Examination 2019

Subject Name: **Advanced Database Management System**Subject Code: **4CS05BDB1**Branch: **B. C. A.**Semester: **5**Date: **14/03/2019**Time: **10:30 To 01:30**Marks: **70****Instructions:**

- (1) Use of Programmable calculator and 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	Differentiate between below:	14
	a) Varchar and Varchar2	2
	b) Truncate and Delete command	2
	c) Substr and Instr	2
	d) Primary key and Unique Key	2
	e) Rename and alias in table	2
	f) \$ORACLE_BASE and \$ORACLE_HOME	2
	g) SQL and PL/SQL	2

ATTEMPT ANY FOUR QUESTIONS FROM Q. 2 TO Q. 8**Q. 2 Attempt all questions.**

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|----|--|---|
| a) | What is SQL and also describe types of SQL statements? | 7 |
| b) | Define the order of precedence used in executing SQL statements. | 7 |

Q. 3 Attempt all questions.

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|----|---|---|
| a) | Explain below multiple-row and single-row functions:
avg, count, max, concat, length, trunk, lower | 7 |
| b) | What is the difference between count (*), count (expression), count (distinct expression)?
<i>(Note: expression is any column name of a table)</i> | 7 |

Q. 4 Attempt all questions.

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|----|---|---|
| a) | Explain Oracle Database Objects: Index and Cluster. | 7 |
| b) | Enlist and explain data control and transaction control commands. | 7 |

Q. 5 Attempt all questions.

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|----|--|---|
| a) | What are Locks? Explain various lock types in detail. | 7 |
| b) | Write note on Backup & Recovery functionalities of Oracle. | 7 |



Q. 6 Attempt all questions.

- a) Explain PL/SQL block structure. 7
- b) What are the uses of %rowtype and %type in PL/SQL? 7

Q. 7 Attempt all questions.

- a) Write note on stored procedures and functions in PL/SQL. 7
- b) What is RDBMS? Explain the importance of E-R diagram in RDBMS. 7

Q. 8 Attempt all questions.

- a) What is trigger? Explain two supported types of triggers in detail. 7
- b) How to handle errors in PL/SQL? Discuss. 7

