Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III (OLD) - EXAMINATION – SUMMER 2017 Subject Code: 130703 Date: 07/06/2017

	Subj	ect Name: Database Management System	
	Time: 10:30 AM to 01:00 PM Instructions: 1. Attempt all questions.		70
		 Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q. 1	(a)	Explain: (1) Database (2) Meta data (3) Data Dictionary (4) user_constraints table (5) check constraint (6) null (7) cursor	07
	(b)	Explain commands: (1) Rename (2) Alter (3) View (4) Unique (5) Drop (6) Default (7) Update	07
Q.2	(a) (b)	Explain with examples: (1) To_char() (2) To_date() (3) To_num() Explain the difference between: (1) Primary key and foreign key (2) Grant and Revoke (3) Commit and Rollback	07 07
	(b)	OR Explain with example: (1) order by (2) group by and having (3) as select (4) schema	07
Q.3	(a) (b)	Define DBMS. Explain the role of DBA. Explain Data Independence and its types in detail. OR	07 07
Q.3	(a) (b)	Define Schema. Explain three level architecture in DBMS. Explain Specialization, Generalization and Categorization in DBMS.	07 07
Q.4	(a) (b)	What is functional dependency and explain its various types? What is Redundancy? Explain the anomalies in relational database. OR	07 07
Q.4	(a) (b)	What is Join and explain various types of Joins? What is Normalization and its properties? Explain 3NF and BCNF.	07 07
Q.5	(a) (b)	What is locking? Explain Implicit and Explicit locking in oracle. Write query for the following. (1) Create a table from at table. (2) To join two existing tables. (3) To view system date. (4) To drop a view.	07 07
Q.5	(6)	OR What is concurrency? Explain concurrency control techniques.	07
Ų.S	(a) (b)	What is database Recovery? Explain Shadow paging in detail.	07
