Seat No.: _____

Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA – SEMESTER – V • EXAMINATION – WINTER – 2017

Subject Code: 650004	Date:29/11/2017
----------------------	-----------------

Subject Name: Advance Data Base Management Systems

Time: 10:30 am to 01:00 pm Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1 (a)	 Do as Directed Define Dense index What do you mean by Dirty bit? Differentiate interleaved concurrency v/s parallel concurrency. List out various database utilities that help the DBA manage database system. What is the use of BLOB? DES stand for	7
Q.1 (b)	 Explain Three- schema architecture with diagram Write a note on Double Buffering 	4
Q.2 (a)	List out and Explain advantages of DBMS approach	7
Q.2 (b)	What is tuning? What are the goals of it? Discuss types of problems encountered during it. Also discuss the different types of statistics required for it.	7
	OR	
Q.2 (b)	What do you mean by key field ?Explain in brief the concepts of primary index, clustering index and secondary index	7
Q.3 (a)	Write a note on PKI with its six ingredients and Digital signature	7
Q.3(b)	Why deferred update technique is called NO UNDO/REDO method? Discuss deferred update technique in a single user environment with example.	7
OR		
Q.3 (a)	Write a note on WAL, Steal/No-steal approach and Force/no-Force approach	7
Q.3 (b)	List out four main control measures that are used to provide security of data. Explain Access control and action performed by DBA for security in brief.	7

http://www	v.gujaratstudy.com	
Q.4 (a)	Explain Fixed length records, variable length records, spanned records and unspanned records with example.	7
Q.4 (b)	Give functions of Temporal database. List out various temporal data types. Explain the concepts of valid time and transaction time dimension with example.	7
	OR	
Q.4 (a)	Explain in brief distributed concurrency control based on distinguished copy of a data item in DDBMS.	7
Q.4 (b)	List the object relational features included in SQL-99. Give an example of each	7
Q.5 (a)	What is GIS? List out and explain various characteristics of data in GIS.	7
Q.5 (b)	Explain bulk insert using SQL* loader.	7
	OR	
Q.5 (a)	Write a note on Mobile computing architecture.	7
Q.5 (b)	Explain oracle Net configuration in detail.	7
