Roll No.....

M. Sc. IT-10 (Master of Science in Information Technology) Fourth Semester Examination 2012 MIT-4002

Database Administration
Time: 3 Hrs Max Marks: 60

Note: the question paper is divided in three sections – A, B and C. Answer the questions as per instructions given in each section.

Section-A (Long Answer's Questions)

Answer any two questions. Each question carries 15 marks.

 $2 \times 15 = 30$

- 1. a) Discuss architecture of a typical database system with the help of suitable diagram. Explain its components in detail.
 - b) Explain different types of data independence.
- 2. a) Discuss different types of failures in oracle environment.
 - b) Explain database backup and recovery strategies.
- 3. a) Discuss Oracle Net Stack Architecture.
 - b) What are stored procedures? How do we accept arguments in stored procedures? Explain with the help of suitable example? How do we modify existing stored procedures?
- 4. a) How do we test backup and recovery plan?
 - b) What is privilege management in Oracle? How do we grant and revoke privileges?

MIT-4002 Page 1

Section-B

(Short Answer's Questions)

Answer any four questions. Each question carries 5 marks.

 $4 \times 5 = 20$

- 1. Discuss roles and responsibilities of a Database Administrator.
- 2. What are different network design considerations in network administration?
- 3. Write short note on performance tuning.
- 4. What are views? Explain with the help of suitable example. Write syntax to create a view.
- 5. What is use of GROUP BY clause in SQL? Explain with the help of suitable example.
- 6. What is referential integrity? Differentiate between primary key and foreign key
- 7. How constraint management is achieved in a typical RDBMS?
- 8. Discuss physical and logical storage structure.

Section-C (Objective Type Questions)

Answer all questions. Each question carries 01 mark. 10 x 1= 10 Choose the correct option 1. _____ returns total number of records in a table

- _____
 - a. Unique
 - b. Distinct
 - c. Count
 - d. Max
- 2. _____ returns records of a table in descending order

a. Order By DESC

MIT-4002 Page 2

- b. Order By Decreasing
- c. Order by Descending
- d. Descending Order By
- 3. SQL stands for _____
 - a. Simple query language
 - b. Structured query list
 - c. Structured query language
 - d. Systematic query language
- 4. To create a table _____ command is used
 - a. Create table <Table-Name>
 - b. Create <Table-Name>
 - c. Create table name=<Table-Name>
 - d. Create def <Table-Name>
- 5. To modify an existing stored procedure following command is used
 - a. Edit StoredProcedureName
 - b. Modify StoredProcedureName
 - c. Change StoredProcedureName
 - d. Alter StoredProcedureName

Write True / False against the following

1.	Oracle is only a Database System	(True / False)
2.	Primary key can be a combination of multiple columns	(True / False)
3.	Foreign key ensures referential integrity	(True / False)
4.	DROP command is used to delete all the records of a table	(True / False)
5.	Select count(*) from Tablename will return record count after	eliminating
	duplicate values.	(True / False)

MIT-4002 Page 3