

105/II**003-008103****M.Sc. (IT & CA) (CBCS) (Sem.-I) Examination****January-2014****CMY 1003 : RDBMS & Advanced Database Administration****Faculty Code : 003****Subject Code : 008103****Time : 3 Hours]****[Total Marks : 70**

- I. Attempt any **three** : **30**
- (1) What is Index ? Explain Index Architecture in detail. Give syntax to create a index using T-sql statement. **10**
 - (2) What is cursor ? Explain different types of cursor. **10**
 - (3) What is Oracle Instance ? Explain Background Processes and SGA. **10**
 - (4) What is Trigger ? Explain types of Trigger. **10**
- II. Attempt any **five** : **30**
- (1) Explain BULK INSERT in detail. **6**
 - (2) Explain components of SQL Server 2000. **6**
 - (3) Differentiate the following : **6**
 - (i) Primary Key vs. Foreign Key vs. Unique Key
 - (ii) Implicit Transaction vs. Explicit Transaction
 - (4) List and explain various startup and shutdown methods. **6**
 - (5) Explain types of Backup available in Oracle. **6**
 - (6) Explain Resource Management in detail. **6**
- III. Answer following question in brief. **10**
- Create a procedure which will create a backup copy on D:\Backup Folder. Accept a database name from user to take a backup. If user does not provide any parameter then take a backup copy of all databases available in SQL Server.

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SC-003008103 **Seat No. _____**
Master of Science (IT) Semester-I Examination

October / November - 2012

CMY 1003 : RDBMS & Advanced Database Administration

Time : 2 ½ Hours

Total Marks : 70

Q:1 Answer in detail. (Any 5)

25

1. Explain SQL Profiler with detail?
2. List and explain different component of SQL Server 2000?
3. Explain BCP Utility Bulk Insert in Detail?
4. Explain Transaction log architecture.
5. Give steps to create and modify view in SQL Sever
6. Explain index architecture and also explain when to chose an index.
7. Explain Database files and File groups.

Q:2 Answer the following

10

a) Contact Info (conid, name)

Log Contact (Log ID, Conid, name)

Write a trigger on ContactInfo which user to the name starting with 'A' or is less than 8 letters. If name Starting With 'A' and Less than 8 Letters then Record in LogContact Table . Otherwise not.

OR

a) Account (AccId, Amount)

Write a database trigger not allowing to insert, delete or update on Sunday and before 9:00AM & 4:00PM.

b) **Differentiate the Following**

1. Rollup Vs Cube
2. Small date time Vs Date time

Q:3 Explain the following, (Any 5)

25

1. Write a steps to create new Database Manually in oracle ?
2. List and Explain Different type of Turning at Database Level ?
3. Differentiate Archive Log mode Vs. No Archive Log mode.
4. Explain Resource Management in detail ?

5. Explain Rollback segments in detail. Also explain how to create it ?
6. Explain Database role in detail ?
7. What is Contention ? Explain Contention Issues ?

Q:4 Answer briefly.

10

1. Differentiate Hot Backup Vs Cold Backup
2. What is UTLBSTAT and UTLESTAT ?
3. What is mirrored-online redo log ?
4. List different recovery techniques ? Explain any one.
5. What is auditing ? Explain system privilege roles.



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Seat No. _____

M. Sc. (Sem. I) (IT & CA) Examination

January – 2012

**CMY1003 : RDBMS & Advanced Database
Administration**

Faculty Code : 003

Subject Code : 008103

Time : 3 Hours]

[Total Marks : 70

- 1 Attempt any ten of the following : 30**
- (i) Write down the difference between PFILE and SPFILE.
 - (ii) Write steps for creating database manually.
 - (iii) Explain control files.
 - (iv) What is Sql server ? List our Microsoft Sql server services and explain any three.
 - (v) What are constraints ? Explain any three with example.
 - (vi) Write down the difference between SYSOPER and SYSDBA role.
 - (vii) Write a short note on Data Blocks.
 - (viii) Explain cursor with suitable example.
 - (ix) Explain where, group by and having keywords with appropriate example.
 - (x) List out types of authentication methods and explain any two in detail.
 - (xi) What is tuning ? Explain types of tuning.
- 2 Attempt any six of the following : 30**
- (i) What is stored procedure ? Explain in detail.
 - (ii) Write a short note on Join.
 - (iii) Explain Data Dictionary in detail.
 - (iv) List out and explain types of Database modes with its steps.
 - (v) What is backup ? List out and explain types of backup.
 - (vi) Explain types of Tablespace with example.
 - (vii) What is privilege ? Explain types of privilege, also write the example of granting and revoking the privilege to a particular user.

3 Attempt any **one** of the following :

10

- (i) What is Profile ? Explain type of profile Resources in detail.
- (ii) Consider the following table structure in SQL server.

CASE	CLIENT	ADVOCATE
case_no	client_no	adv_id
case_type	client_name	adv_name
city	address	
	phone_nos	
	e-mail id	
	case_no	
	adv_id	

- (a) Create the above three tables with appropriate constraints.
- (b) Count and display the number of case handle by each advocate.
- (c) Count and display the number of client handle by each advocate.
- (d) Write a cursor to display the following :

Case_No
Case_Type
Client_Name
Address
Phone_No
Adv_Name



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Seat No. _____

M. Sc. (Sem. I) (CBCS) (IT & CA) Examination

January - 2011

CMY 1003 : RDBMS & Advanced Database

Administration

(New Course)

Faculty Code : 003

Subject Code : 008103

Time : 3 Hours]

[Total Marks : 70

1 Answer the following multiple choice questions. 15

- (1) Which of the parameters are in INIT.ORA
(A) DB_BLOCK_SIZE
(B) REMOTE_LOGIN_PASSWORD
(C) TIMED_STATISTICS
(D) All of these
- (2) Which port is used by Oracle.
(A) 1521
(B) 1522
(C) 1251
(D) None of these
- (3) Which of the following are not the mode of database in Oracle.
(A) Archive
(B) Noarchive
(C) (A) and (B) both
(D) None of these
- (4) How many types of trace file available in Oracle.
(A) 3
(B) 2
(C) 1
(D) None of these

- (5) Which of the following is not authentication method in Oracle.
- (A) Password authentication
 - (B) Operating system authentication
 - (C) User check authentication
 - (D) None of these
- (6) Manual archive is controlled by
- (A) DBA
 - (B) End user
 - (C) Database itself
 - (D) None of these
- (7) Some times default tablespace is also referred as
- (A) Home directory
 - (B) Main directory
 - (C) (A) and (B) both
 - (D) None of these
- (8) Which of the following is not the option in tablespace.
- (A) Online
 - (B) Offline
 - (C) Temporary
 - (D) None of these
- (9) The Oracle RDBMS comes equipped with which of the following accounts to administrate the oracle.
- (A) SYS
 - (B) SYSTEM
 - (C) Internal
 - (D) All of these
- (10) Which of the following background process is used by oracle to shift from one redo log file to another redo log file.
- (A) Checkpoint
 - (B) Logwriter
 - (C) Databasewriter
 - (D) None of these
- (11) Which of the following is DML
- (A) Create
 - (B) Alter
 - (C) (A) and (B) both
 - (D) None of these
- (12) Which of the following is DDL
- (A) Create
 - (B) Alter
 - (C) (A) and (B) both
 - (D) None of these

- (13) Which of the following is stored procedure
- (A) redo
 - (B) trigger
 - (C) dirty block
 - (D) None of these
- (14) In which constraints the null is not allowed
- (A) Primary key
 - (B) Check
 - (C) Unique
 - (D) None of these
- (15) Which of the following clause is used to sort the data
- (A) Having
 - (B) Where
 - (C) Group
 - (D) None of these

2 Attempt any **five** of the following. 15

- (1) Briefly explain Meta data.
- (2) What is constraints ? Explain table level and column level constraints with example.
- (3) Write short note on view in SQL server.
- (4) Explain parameter file INIT.ORA in oracle
- (5) List and explain types of tuning in oracle.
- (6) What is database mode ? List and explain its type with steps.

3 Attempt any **three** of the following : 15

- (1) What is backup ? List and explain different types of backup.
- (2) What is role ? List and explain different database role.
- (3) What is SP ? How and where database handles SP, explain it in detail.
- (4) What is cursor ? Illustrate it with suitable example.

4 Attempt any **two** of the following. 15

- (1) What is trigger ? List and explain different types of trigger in SQL server.
- (2) What is index in SQL server ? Explain index architecture in detail of SQL server.
- (3) What is profile ? List and explain the resources of kernel and password in detail.

5 Attempt any **one** of the following. 10

- (1) Explain Oracle architecture in detail.
- (2) Consider the following table structure in SQL server.

book

bno (number)

bnm (character)

price

pcode (number) publisher code

acode1 (number) Author code

publisher

pcode (number)

pnm (character)

Author

acode (number)

anm (character)

- (1) Create the above three tables with appropriate constraints.
- (2) Count and display the number of books published by each publisher.
- (3) Count and display the number of books published by each author.
- (4) Write a trigger that will not allow to delete any record in publisher if the pcode is used in any record of book.
- (5) Write a cursor to display the following

Publisher name :

Book no :

Book name :

Price :

Author name :

M.Sc. (IT & CA) SEM I Examination

CMY 1003 : RDBMS & Advanced Database Administration (New Course)

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Q.1 Explain following terms in brief. **5**

- (1) DTS
- (2) SQL query analyzer
- (3) View
- (4) SGA
- (5) Archive logs

Q.2 Attempt any TWO of the following questions. **20**

- (1) Explain the relational database engine architecture and administration architecture of SQL Server 2000 in detail.
- (2) What is data integrity? Explain each of the constructs to enforce data integrity in detail with example
- (3) What is backup and recovery in database? Explain various recovery methods in Oracle.

Q.3 Attempt any FOUR of the following questions. **20**

- (1) What is indexing? Explain index architecture in SQL Server.
- (2) What is stored procedure? Explain creating and executing procedures. Explain Nested procedures.
- (3) What is cursor? Explain cursor locking.
- (4) Explain INIT.ORA in Oracle.
- (5) What is ROWID? Explain table-spaces and estimating storage for a table in Oracle.

Q.4

Attempt any THREE of the following questions.

15

- (1) Explain system-supplied data types in SQL server. What are the user define data types? Explain it with suitable example.
- (2) Explain importing and exporting data in SQL server.
- (3) Explain components and relational database engine of SQL Server. Give analysis services provided by it.
- (4) What is trigger? Write syntax for creating it. Explain with suitable example.

Q.5

Attempt any ONE of the following questions.

10

- (1) Explain Oracle architecture in detail.
 - (2) Explain the security in SQL Server 2000 server in detail with server monitoring and tuning.
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