Model Question (Database Administration)

Tribhuvan University
Institute of Science and Technology

Bachelor Level/Fourth Year/Seventh Semester/Science Pass Marks: 24
Database Administration (CSC-406) Full Marks: 60
Time: 3 Hours.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group A

Long Answer Questions (Attempt any TWO questions) [2×10=20]
1. What do you mean by database management system? Mention the clear architecture of database management system including its different files.
2. You are working as DBA in Nepal Clearing House Limited which handle 24/7 online system. You have to design security and backup procedure for the organization.
3. What are the various kinds of performance report available in the oracle database management system mention the name and describe them one by one.

Group B

Short Answer Questions (Attempt any Eight questions) [8×5=40]
4. What is DML? Explain all the SML command with suitable example.
5. What is a view? Write an importance of view.
6. Explain the role of database administrator?
7. What is ASM? Mention the capabilities of ASM.
8. Write the command to add new redo group and drop group in the database.
9. Write DDL command for following.
   a. Change table product to product_org
   b. Add new check constraints in the status field of product_org table value of status field should always (00,01 and 09)
   c. Create backup table of sales
   d. Disable check constraint in the table.
10. What is AWR report? Write all the component of AWR report.
11. What do you mean by parallel instance recovery?
12. Write a trigger to create log of every update and delete statement of product table.
13. Write short note of followings:
   a. Step to create backup device
   b. Internet database connector
Bachelor Level/ Fourth Year/ Seventh Semester/ Science

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(Database Administration)

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(NEW COURSE)

Group A

Attempt All Questions

(2*10=20)

1. Explain the database management system and also describe the database management system architecture.
2. How can you design the plan of backup, recovery and security of an organization? Explain.
3. Explain the control and Redo log files with applications.

Group B

Attempt any Eight questions.

(8*5=40)

5. Explain the advanced stored procedures. Ans PLSQL and its structure
6. Explain the testing the backup and recovery plan.
7. What do you mean by database corruption? How can you maintain the database corruption?
8. Describe the SQL Tuning Advisor with example.
9. What do you mean by virtual private database?
10. Explain the parallel instance recovery with example.
12. Explain the tuning methodology with example.
13. Write short notes on:
   a. AADM (Automatic Diagnostic Monitor)
   b. RMAN
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(NEW COURSE)

Group A

Attempt All Questions  
(2*10=20)

1. Explain the database management system architecture and also explain the DBA roles and responsibilities.
2. What do you mean by Redo log files? Explain the maintaining and monitoring redo log files.
3. What is tuning methodology? Explain the Automatic database diagnostic monitor with its applications.

Group B

Attempt any Eight questions.  
(8*5=40)

4. Explain the database security and auditing.
5. How can you test the backup and recovery plan?
6. How can you manage the automatic storage?
7. Differentiate between database administrator and data administrator.
8. Explain the ASM and its capabilities.
9. Define the AWR. What are the components of AWR report?
10. What do you mean by parallel instance recovery?
11. What do you mean by database corruption? How can you recover in this case?
12. Explain the SQL tuning advisor.
13. Write short notes on:
   a. Using ISQL Plus
   b. RMAN
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(NEW COURSE)

Group A

Attempt any Two Questions (2*10=20)

1. Explain any detail about the DBMS architecture
2. What do you mean by database performance tuning? Explain the role of ADDM and SQL Access Advisors in performance testing of oracle database.
3. As a DBA explain how you can manage user privileges, roles and profiles? Consider you got a call from your backup DBA while you are on leave. He has corrupted all of the data files while playing with the ALTER DATABASE CONTROLFILE command. What do you do? Explain.

Group B

Attempt any Eight Questions (8*5=40)

4. Differentiate between logical and physical data independence.
5. What are the authentication method for DBA? Explain.
6. What is redo log buffer and how do you monitor a waiting session in the redo log buffer?
7. Differentiate between hot and cold backup. What is involved with executing a hot backup?
8. Consider a situation that an alteration is made to the sp file which results in the instance being unable to start. As DBA how can you fix this problem?
9. What do you mean by a view? Explain its importance.
10. What do you mean by parallel instance recovery?
11. What is oracle virtual private database? Explain the benefit associated with it.
12. Write the DBA queries for the following actions:
   a. To display the size of your database
   b. Lock or unlock a user
   c. Show all connected users with their status
   d. Show the current SQLs
   e. Show what roles are granted to a user.
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Database Administration

New Course

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Section A (2*10=20)

Attempt any two questions.

1. What do you mean by Database and database management system? Explain the SQL Plus overview.
2. Explain the managing maintaining and monitoring redo log files with appropriate example.
3. Explain the backup and recovery plan and strategy with practical example.

Section B

Attempt any eight questions. (8*5=40)

4. How can you manage the control files? Explain.
5. Explain the database security and auditing.
6. Explain the testing the backup and recovery plan.
7. What do you mean by backup and recovery strategy?
8. Explain the RMAN with example.
9. What do you mean by tuning methodology?
10. Explain the virtual private database with example.
11. Explain the parallel instance recovery with practical example.
12. What are the major difference between automatic database management and automatic storage management?
13. Write short notes on:
   a. DBA roles
   b. Column masking

Special thanks to Sauhaan Shrestha for proving us this Question paper.

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