

Tribhuvan University
Institute of Science and Technology

2082



Bachelor Level / Fourth Year/ Seventh Semester/ Science
Computer Science and Information Technology (CSC-414)
(Database Administration)
(OLD COURSE)

Full Marks: 60
Pass Marks: 24
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

Attempt any TWO Questions

[2 × 10 = 20]

1. How do you add constraints in tables? Define indexes, views, synonyms and sequences. Discuss about stored procedure with an example. [2 + 4 + 4]
2. What is database backup and why it is necessary? Explain the different strategies for data recovery. [4 + 6]
3. Define virtual private database and database auditing. Describe about database authentication and authorization methods. [3 + 7]

Group B

Attempt any EIGHT Questions

[8 × 5 = 40]

4. Explain the roles and responsibilities of DBA. [5]
5. What is multiplexing? Discuss about memory and process architecture. [2 + 3]
6. Define PLSQL. What is partitioned materialized view? [2 + 3]
7. How do you work with table space and data files? Illustrate with an example. [5]
8. What is flashback operations? Discuss about oracle data guard. [2 + 3]
9. How do you manage user profiles and privileges? Explain. [5]
10. Describe the architecture of multitenant database. [5]
11. Why do we need to tune database? Explain. [5]
12. Define distributed database. How do you create pluggable database? [2 + 3]