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BCACAC 158

Credit Based Second Semester B.C.A. Degree Examination, April/May 2017 (New Syllabus – Common to all Batches) DATABASE CONCEPTS AND ORACLE

Time: 3 Hours

Max. Marks: 80

Note: Answer any ten questions from Part – A and any one full question from each Unit of Part – B.

PART-A

a) What is Metadata and System catalog?

(10×2=20)

- b) Define key attribute.
- c) What is a derived attribute?
- d) What is a superkey?
- e) What is the degree of a relation? In U
- f) What is Normalization?
- g) What is a dual table?
- h) List any two aggregate functions with example.
- i) Give the Syntax of DELETE command.
- j) What is the difference between Function and Stored Procedure?
- k) List any two advantages of PL/SQL.
- I) Write any two uses of package.



PART-B

Unit - I

- 2. a) What are the responsibilities of a Database Administrator?
 - b) List and explain the different categories of End users.
 - c) Explain the three schema architecture of DBMS with diagram. (5+5+5)
- 3. a) Explain the different types of attributes.
 - b) What is data independence? Explain.
 - c) Compare DBMS approach over traditional file oriented system. (5+5+5)

Unit - II

- 4. a) Explain the three basic UPDATE operations on relation.
 - b) Write a note on internal hashing.
 - c) Explain the mechanism used to read data from or write data to the disk. (5+5+5)
- 5. a) What are the main goals of raid Technology? How does it achieve it?
 - b) Explain entity integrity and referential integrity constraints.
 - c) Explain 1NF and 2NF with example.

(5+5+5)

Unit - III

- a) Explain pattern matching and range searching predicates in SQL with example.
 - b) Explain with example any five string functions in SQL.
 - c) What is subquery? Explain with example.

(5+5+5)

(5+5+5)

- a) Create a table STUDENT(REGNO, NAME, MARKS1, MARKS2, MARKS3)
 Write the queries for the following.
 - i) Display the structure of the table
 - ii) List all the students whose MARKS1 between 45 and 60
 - iii) Add a column total and average to the above table
 - iv) Calculate TOTAL and update to the table.
 - b) List and explain any five clauses used in SELECT statement in SQL.
 - c) List and explain five data types in Oracle.



Unit - IV

- 8. a) Explain with syntax and example how a trigger is created and executed in PL/SQL.
 - b) List and explain any five named exceptions in Oracle.
 - c) What is a cursor? Explain the steps involved in declaring a cursor and manipulating data in the active set.
- 9. a) Explain the PL/SQL program structure with example.
 - b) With syntax and example explain how procedure is created in PL/SQL.
 - c) Explain the if...endif statement in PL/SQL with example. (5+5+5)

