PRSU BCA PART 2 QUESTION PAPER

Paper 4: DBMS (ORACLE, SQL) - 2017

Time: Three Hours Maximum Marks: 100 Minimum Pass Marks: 40

Note: Attempt any two parts from each unit. All questions carry equal marks.

UNIT - 1

- 1. (a) What is Data Abstraction? Discuss the level of abstractions at which database may be viewed.
- (b) Described the function and responsibilities of a database administrator.
- (c) Explain the concept of data models and describe the various types of models.

UNIT - 2

- 2. (a) Explain the specialization and generalization in detail.
- (b) What is entity relationship model? 'Explain the various symbols used in E-R diagram.
- (c) Write short notes on the following:
- (i) Weak entity and strong entity
- (ii) Candidate key and super key

UNIT - 3

- 3. (a) Explain the fundamental operations of relational algebra with example.
- (b) Explain primary key with suitable example.
- (c) Write short notes on the following:
- (i) Set operation
- (ii) Referential integrity

UNIT - 4

- 4. (a) Explain the various Pitfalls in database design.
- (b) Discuss 3NF, BCNF and 4NF with example.
- (c) Explain join dependency and multivalve dependency.

UNIT - 5

- 5. (a) Explain the operation of the SQL by which data can be modified.
- (b) What are aggregate functions? Describe each function.
- (c) Write short notes on the following:
- (i) Group by
- (ii) Order by
- (iii) Nested queries