PART—A　　　　　　　3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Define entity, attribute and entity set.

2. List any three advantages of database system.

3. Define data model. Give an example.

4. Mention how to place comments within SQL with an example.

5. List any three numeric functions and write their functionality.

6. What is DML? Give any two examples.

7. List types of views.

8. State the purpose of PL/SQL engine.

9. List various types of cursors and give at least one example in each type.

10. What is a package? List its components.

PART—B 10×5=50

Instructions : (1) Answer *any* **five** questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. *(a)* Explain the responsibilities of database manager.

(b) Explain the different types of users in database management system.

12. Define normalization. Explain 1st NF, 2nd NF and 3rd NF with examples.

13. Explain any five character handling functions with examples.

14. *(a)* Define pseudo-column and give examples.

(b) List and explain any four guidelines for managing schema objects.

15. Explain the management of tables with respect to creation, altering and dropping tables.

16. Explain various iterative statements with their syntax and examples.

17. *(a)* List and explain advantages of PL/SQL exceptions.

(b) Distinguish between functions and procedures in PL/SQL.

18. Explain the concept of package overloading with an example program.

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