QP CODE : 39738

(3 hours) [Total Marks: 80]

NB :
1. Question 1 is compulsory.
2. Out of remaining attempt any three
3. Assume suitable data wherever required.
4. Figures to the right indicate full marks.

Q 1   a   Differentiate between File system with database management system   [5]

b   Describe roles of DBA   [5]

c   Explain aggregate functions of DBMS   [5]

d   Describe Generalization and specialization with example.   [5]

Q 2   a   Consider following database tables   [10]

Emp (eid , ename , salary , Address , deptid)

Dept (Deptid , Dname , Address)

Construct the following SQL queries for this relational database.

   i)   Find name of employee whose address is "Bandra"

   ii)   Find name of employee earning highest salary

   iii)   Find all employee working for "HR" department

   iv)   Delete record of employee with minimum salary

   v)   Display Name of departments of the company

b   Explain operations of file in details   [10]

Q 3   a   Describe design guide lines for relational schema with example   [10]

b   List various types of constraints in Database? Explain any two.   [10]

Q 4   a   Why joins are required? What are the types of Joins? Explain each with example.   [10]

b   Explain Stored Procedure & Function with example   [10]

Q 5   a   Draw and explain Database Management System Architecture   [10]

b   Explain conflict and view serializability with example   [10]

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Q 6   Write short note on following

a   Role and Responsibilities of DBA.   [5]

b   Single Level Indexes   [5]

c   Hashing Technique   [5]

d   Set Operations   [5]

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