| [Time: 3 Hours] [N | Marks:80] |
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| Instructions | Africa Olympia |
| (1) Q.1 is Compulsory.(2) Solve any three from remaining questions.(3) Draw neat diagrams whenever necessary. | OS CONTRACTOR |
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| Q.1 a) What is data abstraction and data independence.b) Draw Extended E-R diagram for Hospital Management System. | (10) (10) |
| Soft Soft Start Soft | EN SEN |
| Q.2 a) Explain types of joins with suitable example. b) Write SQL expression for the following queries | (10) |
| Consider Employee relation (Emp_no, Emp_name, Emp_add, ph_no, email_id, si) List the employee whose employee number is 100. ii) List the Employee whose salary is between 50 K to 1 Lac. iii) List the Employees whose name starts with 'Ami'. | salary) |
| iv) Find 2nd highest salary of Employees. v) Create two views on employee table. | (10) |
| Q.3 a) Explain any five relational algebra operators with suitable example.b) Define deadlock and Explain deadlock handling. | (10) (10) |
| Party By By By By By | |
| Q.4 a) What is 2PL. Exapain its types. b) What is Trigger. Explain with Syntax and example. | (10) (10) |
| Q.5 a) Explain view and conflict serializability with suitable example. b) What is normalization. Explain 1NF,2NF,3NF with suitable example. | (10) (10) |
| Q.6 Write note on any two a) ACID properties of transaction with example. b) Transaction state diagram and explain TCL commands c) Types of users in DBMS. | (20) |
| California Carrier | |