Shri Vile Parle Kelavani Mandal's

SHRI BHAGUBHAI MAFATLAL POLYTECHNIC

Program : Information Technology **Semester** : II
Course : **Database Management System** **Course Code** : 168918
Date : 26-08-2019 **Time** : 08:30 am to 09:30 am
Maximum marks : 30

Question Bank

Q.1	Define the following terms: a. DBMS b. Database c. Query d. DDL e. DML	4
Q.2	Give the Drawbacks of File Processing System	4
Q.3	Give the advantages of DBMS over file processing system	4
Q.4	Describe the three levels of data abstraction?	4
Q.5	Describe Functional dependency in DBMS	4
Q.6	Explain database instance & database schema with suitable example	4
Q.7	Explain various data models in DBMS	8
Q.8	Describe Database System environment with a diagram OR Explain Database system architecture in details	8
Q.9	Describe the role or functions of Database administrator	4
Q.10	Describe various types of database users	4
Q.11	Explain various types of constraints in DBMS with example	8
Q.12	Describe various DDL and DML commands	8
Q.13	Give example of following relationships : a. Many-to-One b. One-to-One c. One-to-Many d. Many-to-Many	4
Q.14	Draw and label all symbols of ER diagram	4
Q.15	Consider the following tables: Employee (Emp_no, Name, Emp_city) Company (Emp_no, Company_name, Salary) i. Write a SQL query to display Employee name and company name. ii. Write a SQL query to display employee name, employee city, company name and salary of all the employees whose salary >10000 iii. Write a query to display all the employees working in 'XYZ' company.	4
Q.16	Describe aggregate functions with example	6
Q.17	Explain Primary key and foreign key concepts in DBMS with example	4
Q.18	Explain SET operators in DBMS with example	6
Q.19	Discuss the various type of join operations in DBMS with example	8
Q.20	Explain different Data types in SQL.	4
Q.21	Explain the concepts of sub queries with example	4
Q.22	Explain DCL and TCL commands	6
Q.23	Draw an ER diagram for the given scenario	6
Q.24	Give classification of physical storage media	4
Q.25	Explain various physical storage media with its hierarchy	6
Q.26	Draw and explain the mechanism of magnetic HDD	8
Q.27	Describe various performance measures of disks OR Define the following terms a. Access Time b. Seek Time c. Rotational Latency d. MTTF e. Data Transfer Rate f. Throughput	6
Q.28	Describe various RAID levels in detail	8
Q.29	Discuss fixed length records with suitable example.	6
Q.30	Discuss variable length records with suitable example.	6
Q.31	Draw and Explain slotted page structure of file organisation	4