Question Bank Database Management System (22319) (CO-3-I)

First Unit Test	
1) List any four advantages of DBMS over file processing system.	
OR List disadvantages of file processing system	(W-18)(2M)
OR State advantages of DBMS over file processing system	(S-19) (W-19) (2M)
2) Enlist applications of database.	
3) Differentiate between: DBMS and RDBMS.	
4) Define: Data abstraction and Data redundancy.	(W-18) (2M)
5) Explain Data Redundancy and Integrity.	
6) Draw three level architecture of DBMS.	(W-19) (2M)
7) Define Attribute. List the types of Attribute.	
8) Explain ALTER command. Demonstrate with any two options (a	add & modify options).
9) Explain Overall structure of DBMS with help of diagram.	(S-19) (4M)
10) Define Instance and Schema of Database.	(S-19) (4M)
11) List various data models.	(2M)
12) Describe basic concepts of relational model.	
13) What is data model? Explain network model and hierarchical model	
14) Distinguish between: Hierarchical model and Network Model.	(W-18) (W-19) (4M)
15) Differentiate between relational model and hierarchical model	(S-19) (4M)
16) List and draw any four symbols used in ER Model.	
17) Draw an E-R diagram of library management system considering	
calculation facility and also show primary key, weak entity and	strong entity set. (W-18)
(6M).	
OR Draw an ER diagram of library management system consider	_
calculation facility. Consider appropriate entities	(S-19) (6M)
OR Draw an ER diagram for library management system (Use b	<u>=</u>
entities)	(W-19) (6M)
18) Explain strong and weak entity set.	(W-19)(4M)
19) Define entity. Differentiate between Strong and Weak Entity Set	with example.
20) Define recursive relationship.	
21) Define tuple, field, cardinality,	
22) degree.	100 (
23) Define Table and Field.	(W-19)(2M)
24) State any 2 E.F. Codd's rule for RDBMS.	(S-19) (2M)
25) Define normalization. List its types	(W-18) (S-19) (2M)
26) List any two needs of normalization.	(2M)
27) State and explain 1NF and 2NF with example.	(W-18) (4M)
28) State and explain 2NF with example.	(S-19) (4M)
29) State and explain 3NF with example.	(W-19) (4M)
30) List any four DDL commands with syntax.	(W-18) (2M)
31) Define: Candidate key and primary key	(W-18)(2M)
32) Define alternate key.	
33) Define primary key and foreign key	(W-19)(2M)
OR Define following keys with example.	
i. Primary Key	
ii. Foreign Key	
34) State any 4 PL/SQL data types.	(S-19) (2M)
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35) List data integrity constraints.

36) Describe CREATE & ALTER command with syntax and example. (W-19) (4M)

37) Write the Query to create a table pass_details with the following attribute constraints:

Pnr_no as primary key, train_no as foreign key, train_name as not null.

Column	Data Type
Pnr_no	Number(5)
Train_no	number(10)
Train_name	Varchar2(10)
Boarding	Varchar2(15)
Destination	Varchar2(15)

38) Create a table emp_details with following attribute constraints:

Empno as primary key, deptno as foreign key, cellno must be unique, grosspay must be greater than 10500.

39) Consider the following database:

Employee (emp_id, emp_name, emp_city, emp_addr, emp_dept, join_date) Solve the following query:

- i. Display Employees name in capital letters.
- ii. Display the emp_id of employee who live in city Pune and Mumbai.
- iii. Display the details of employees whose joining date is after '01-June.-2007'.
- iv. Display the total number of employees whose dept. no. is '10'.
- 40) Consider the following schema.

EMP (Empno, Ename, Deptno, Dname, Jobid, Salary, Hiredate) Write SQL queries for following:

- i) To insert three rows in the above table
- ii) To delete the record of employee John.
- iii) To increase salary of Sales department by 10%.
- iv) To list the employees having salary between 20000 and 50000.
- 41) Enlist DML commands.

(W-19)(2M)

42) List DCL commands.

(S-19) (2M)

- 43) Explain difference between delete and truncate command with example (S-19) (4M)
- 44) Explain Drop and Truncate commands with syntax. State the difference between them with example.
- 45) Describe commit and rollback with syntax and example

(W-18)(4M)

- 46) Write command to create table student(rollno,stud_name,branch,class,DOB,city,contact_no) and write down queries for following (W-19) (6M)
 - i) Insert one row into table
 - ii) Save the data
 - iii) Insert second row into the table
 - iv) Undo the insertion of second row
 - v) Create save point S1
 - vi) Insert one row into the table
- 47) Consider following database:

(W-18)(6M)

employee (emp_id, emp_name, emp_city, emp_addr, emp_dept, join_date)

- i) Display emp id of employee who live in city 'Pune' or 'Nagpur'
- ii) Change employee name'Ayush' to 'Ayan'
- iii) Display total number of employees whose dept is 50
- 48) Consider table student(name,marks,dept,age,place,phone,birthdate)

Write SQL query for following:

(S-19)(6M)

- i) To list students having place as'Pune' or 'Jalgaon'
- ii) To list students having same department(dept) as that of 'Rachana'
- iii) To change marks of 'Rahul' from 81 to 96
- iv) To list student name and marks from 'Computer' dept

- v) To list student having marks less than 40
- vi) To list student who are not from 'Mumbai'
- 49) List SQL operators and explain range searching operator **between** and pattern matching operator 'like' with example (S-19) (4M)
- 50) Explain set operators with example.

(W-18) (W-19) (4M)

51) Explain joins in SQL with example.

(W-18)(4M)

- 52) Explain types of JOINs. What is OUTER JOIN? Explain in detail.
- 53) Enlist any 4 aggregate functions.

(W-18)(2M)

OR Explain any 4 aggregate functions with example

(S-19)(4M)

54) Explain any 4 string functions with example.

(W-18)(4M)

OR List any four string functions in SQL

(W-19) (2M)

- 55) Explain GROUP BY, ORDER BY and HAVING clause of SQL with example.
- 56) List and explain any 4 arithmetic operators in SQL with example.
- 57) Explain string, date and time functions of SQL.
- 58) List different types of operators
- 59) Explain any 4 comparison operators
- 60) Explain logical operators with example