

[A-2] Seat No. _____

No. of printed pages: 02

SARDAR PATEL UNIVERSITY
POST GRADUATE DIPLOMA IN COMPUTER APPLICATIONS (PGDCA)
SEMESTER-II
PGDCA - 202 (Database Management Systems)
20th October, 2016

Time: 10 AM To 1 PM

Marks: 70

Q1. Select the Appropriate Option of the following questions as answer: [8]

1. The wild card character % used in strings means
A. any number of characters B. one or more characters
C. at least one character D. None of given
2. To reduce redundant data to the minimum possible, the object called _____ is created.
A. Synonym B. Views C. Sequences D. None of given
3. Which SQL statement is used to extract data from a database?
A. OPEN B. SELECT C. EXTRACT D. None of given
4. _____ Command is used to modify the structure of a table.
A. Update B. Modify C. Alter D. None of given
5. _____ SQL statement is used to delete column of table specified.
A. Drop B. Update C. Delete D. None of given
6. _____ key represents relationships between tables.
A. Primary Key B. Foreign Key C. Unique D. None of given
7. A _____ command changes the work made in the table during the transaction.
A. COMMIT B. Rollback C. Savepoint D. None of given
8. To impose the condition on output of GROUP BY _____ clause is used.
A. HAVING B. CHECK C. WHERE D. None of given

Q2. Answer the following questions: [Any SEVEN] [14]

1. Explain ORDER BY in brief.
2. Explain Range Searching Operator with Example.
3. Explain VIEW with example
4. Explain DROP command with example.
5. Write the advantages of RDBMS over DBMS.
6. Write the use of DBMS_OUTPUT.PUT_LINE.
7. Explain the DELETE statement.
8. Write the purposes ROLLBACK statement.
9. List out at least four rules of Dr. E. F. Codd.

Q3.A. Define Normalization. Explain 1NF with Example. [06]

B. What do you mean by E-R Diagram? Draw the E-R Diagram of College Management System. [06]

OR

B. Explain the concept of Data Constraint with Example. [06]

Q4.A. Write a Note on PL/SQL block structure. [06]

B. What do you mean by Procedures? Explain the concept by taking an example of your choice. [06]

OR

B. Explain briefly the advantages of PL/SQL over the SQL. [06]

Q5.A. Write SQL commands for each of the following. [Any THREE] [06]

i. Display the UNIQUE information like ENO,ENAME, DESIGN, BPAY from table EMP.

ii. Display ENO, ENAME, BPAY from EMP where the ENAME start with the character 'S' or 'P'.

iii. Display all the information of all employees of table STUD in descending order of TOT_MARKS.

iv. Add the primary key SNO to the existing table STUD.

B. Write short note on TRIGGERS. Also discuss the differences between Database Trigger and Procedure. [06]

OR

B. Explain the following built-in functions with example. [Any TWO] [06]

i. SUBSTR() ii. ADD_MONTHS() iii. ROUND()

Q6.A. Explain briefly FOR loop of PL/SQL by taking example of your choice. [06]

B. Write short note on : Cursor and its attributes. [06]

OR

B. Assume that table named TELE has fields TNO Number(5), CNAME varchar2 (20), NCALLS number(5,0) and BILL_AMT number (11,0). [06]

Write a PL/SQL code block to read TNO from the user and to calculate and update the BILL_AMT for that customer using the following criteria:

Charge BILL_AMT as Rs. 400 /= if the NCALLS are less than or equal to 300 else Charge Rs 3 for each additional NCALLS.

GOOD LUCK