

SARDAR PATEL UNIVERSITY
MASTER IN INFORMATION TECHNOLOGY - M. Sc. (IT)
SEMESTER – I [CBCS]
PS01CINT04 (RDBMS & CLIENT SERVER COMPUTING)
7TH DECEMBER, 2012

Time : 2:30 p.m. to 5:30 p.m.

Marks : 70

Note : Answers of all the questions (including multiple choice questions) should be written in the provided answer book only.

Q-1 Choose the most appropriate answer from the choices given : [8]

1. Which one of the following SQL commands is used to destroy a STUD table?
 [A] DESTROY TABLE STUD; [B] DELETE TABLE STUD;
 [C] DROP TABLE STUD; [D] TRUNCATE TABLE STUD;
2. Find odd one out.
 [A] primary key [B] unique [C] not null [D] varchar2
3. In order to make change in an inserted row, which of the following SQL command is used?
 [A] UPDATE [B] INSERT [C] ALTER [D] None of these
4. The statement "the ability to modify physical schema without causing any change to the logical schema" is related to -
 [A] Physical Data Independence [B] Logical Data Independence
 [C] External Data Independence [D] None of these
5. Inner query concept applies to -
 [A] trigger [B] simple query [C] sub query [D] None of these
6. The PL/SQL language is a -
 [A] procedural! [B] non-procedural [C] both [D] None of these
7. We can modify the structure of a table using -
 [A] UPDATE [B] INSERT [C] ALTER [D] None of these
8. Which one of the following commands is used to assign database object privileges?
 [A] ASSIGN [B] GRANT [C] ADD [D] None of these

Q-2 Do as directed (ANY SEVEN) : [14]

1. What is RDBMS? State the benefits of RDBMS.
2. List out any four Codd's rules.
3. What is view? Write down an example of CREATE VIEW command.
4. What do you mean by front end and back end tools?
5. What is sequence? Write down the syntax for creating sequence object.

6. What is constraint? Why is it used?
7. State the role of LIKE and IN operators with an example.
8. Explain commit and rollback.
9. What is index? Write down the advantages of it.

- Q-3 [a] What is Normalization? Explain 1NF, 2NF and 3NF with an example. [6]
[b] What is Trigger? Why is it used? Write the syntax and example of trigger. [6]

OR

- [b] Explain various types of cursors with their attributes. [6]

- Q-4 [A] Explain the following functions with an example: [6]

ABS() LOWER() INITCAP() LPAD()

- [b] What is Lock? Why is it required? Explain implicit and explicit lock. [6]

OR

- [b] What is Data model? Explain Network model and Hierarchical model In brief. [6]

- Q-5 [a] What is Join? List out different types of joins. Explain any three of them with an example. [6]

- [b] Explain Grant and Revoke with privileges, syntax and example. [6]

OR

- [b] Draw DFD and Context Level Diagram for "Sales Order System". [6]

- Q-6 [a] Explain 2-tier and 3-tier client server architecture. [6]

- [b] Explain Reverse Engineering and Commit Protocol. [6]

OR

- [b] What is Fragmentation? Why it is needed? Explain different types of fragmentation. [6]

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