



P-3732

B. C. A. (Sem. III) (CBCS) Examination
March/April – 2014
Relational Database Management System

Time : 3 Hours]

[Total Marks : 70

Instruction :

(1)

नीचे दृशविल निशानीवाणी विगतो उत्तरवही पर अवश्य लખवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
B. C. A. (Sem. 3) (CBCS)	<input type="text"/>
Name of the Subject :	<input type="text"/>
Relational Database Management System	<input type="text"/>
Subject Code No. : <input type="text"/> 3 <input type="text"/> 7 <input type="text"/> 3 <input type="text"/> 2	Section No. (1, 2,.....) : <input type="text"/> NIL
	Student's Signature

- (2) Write to the point.
(3) Provide examples and diagrams wherever appropriate / necessary.
(4) Figures to the right indicate full marks to the question.

- 1 Answer in short : 14
- (i) List out any four duties of DBA.
 - (ii) What is dual table?
 - (iii) What do you mean by "ON DELETE CASCADE" in foreign key ?
 - (iv) Write command to give insert and modify privileges on emp from user sonali to user aarya.
 - (v) What is the difference between CYCLE and NO CYCLE option in sequence?
 - (vi) What is database trigger? Can we invoke trigger explicitly?
 - (vii) What is the meaning of :new and :old in trigger?
 - (viii) List out methods to end transaction in oracle.
 - (ix) What is difference between unique constraint and primary constraint ?

- 2 Answer following : (any three) 21
- (i) Define overloading? Explain function overloading in oracle with proper example.

P-3732]

1

[Contd...

- (ii) How to protect all work and data in oracle? Explain different protective mechanisms in detail.
- (iii) What is Exception? Explain types of Exception handling in oracle. Give one example.
- (iv) Write a detail note on DBA
- (v) What is PL/SQL? Discuss the advantages of PL/SQL. Compare PL/SQL and SQL.

3 Do as directed :

20

- (i) What is Data Constraints? List out all types of constraint. Explain Foreign Key constraint with ON DELETE SETNULL.
- (ii) What is View? Explain types of view.
- (iii) What is function? Explain any five functions along with syntax and output.
- (iv) What is FOR Cursor loop? Discuss advantages of FOR cursor over simple cursor. Give an example of REVERSE keyword in FOR loop.

OR

3 Do as directed :

20

- (i) What is Cursor? Explain types of cursor.
- (ii) What is Index? Explain types of index.
- (iii) What is Subquery? Explain types of subquery.
- (iv) Explain various control statements of PL/SQL.

4 Consider following tables and solve the following :

15

Table Name : Student

Fields	Datatype
Rollno	number
Name	varchar
Stream	varchar
Year	number
Semester	number
Percentage	number

Table Name : Toppers

Fields	Datatype
Rollno	number
Name	varchar
Stream	varchar
Year	number
Semester	number

- (i) Consider student table with some records. Write a procedure which enters records of all the toppers in Toppers table. Toppers from all stream wise, year wise and semester wise.
 - (ii) Write a function which takes input as stream, year and semester along with other necessary parameters and returns total number of students who are fail in specified stream, year and semester. (Consider less than 40% as fail).
 - (iii) Write a trigger which executes at the time of insert in student table and checks whether the current student is topper or not and if the current student is topper then delete topper record from topper table and insert current student's record in topper table.
-