



**SB-3822**

**B. Sc. (IT) (Sem. IV) Examination**

**March / April – 2011**

**Paper : 402 - RDBMS-I**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दर्शायेव निशानीवाणी विगतो उत्तरवडी पर अवश्य बजवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. Sc. (IT) (Sem. 4)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="402-RDBMS-1"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="8"/> <input type="text" value="2"/> <input type="text" value="2"/>	<input type="text"/>
Section No. (1, 2,...): <input type="text" value="Nil"/>	
	Student's Signature

1 Answer the following questions in brief (any six) 18

- (a) What is candidate key ? How it is different than primary key ?
- (b) What is insertion anomaly ? Explain with example.
- (c) Aggregate function is used only with group by clause. Yes or No. Justify with examples.
- (d) Explain any 5 rules of CODD's rule.
- (e) What is view ? Is the view physically located in disk ?
- (f) How to revoke different privileges from the user ?
- (g) Which query is executed by the oracle engine first ? Sub query or Main query ? Why ?

2 Attempt any three : 18

- (a) Consider following relation and normalize it upto 2nd normal form. Generate different tables and show the primary key for each relation.  
Cricket (team\_no, teamname, matchno, matchdate, playerno, playername, country, win\_or\_loose, no\_of\_players, bowler\_no, bowler\_name, overno, noof\_overs)

- (b) Construct the ER-diagram for online reservation system for railway. Consider the specialization and other features.
- (c) What is data dictionary ? Why it is important ? Create the data dictionary for the college database considering 4 main tables the college.
- (d) What is Join ? If user is not specifying the join clause which type of join is internally implemented by the oracle ? What is the difference between left and right outer join ?

**3** Answer the following questions (any six) **18**

- (a) What is total participation of the entity ? Explain with example.
- (b) The BCNF is always in 3NF. Justify.
- (c) What is the use of to\_char and to\_date function ?
- (d) In having clause of group by clause, which type of conditions user can give ?
- (e) What is grant command ? Which type of privileges the user can give to another user ?
- (f) Why SQL is called the structured language ?
- (g) Explain IN and NOT IN clause with example.

**4** Answer the following questions (any four) **16**

- (a) Write SQL statements by considering following tables (tables are already created)  
Stud\_master (srno, sname, sdiv,s\_sem,city,area,bdate)  
Assign\_master(assign\_no, assign\_name, assign\_sub, due\_date, no\_of\_assign)  
Assign\_complt (srno, assign\_no, assign\_sub, status (C for complete, I for incomplete), submitted\_date)
  - (i) Find the students who have not submitted dbms assignments of b division.
  - (ii) Find the student detail who is greater than 15 years and submitted the assignment of cpp.
- (b) Find the functional dependencies exist in all the tables mentioned in A. Is there any partial dependency exist ?

- (c) Explain ALTER table command to add, remove and modify the constraints with the table including example.
- (d) What is business constraint ? How to give the constraint? Where the constraints are stored in oracle ?
- (e) There is one database regarding patient and hospital. Assume the required fields and give the answer.
  - (i) Find the charges paid by the patient admitted for 3 days in deluxe room.
  - (ii) Find the patients who admitted in general ward and belonging to Baroda.

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