8. Write short notes on the following: No. of Printed Pages: 04 Roll No. Control Structures in PL/SQL (a) **D-212** 15 Triggers. (b) B.C.A. EXAMINATION, May 2018 (Fourth Semester) (B. Scheme) (Main & Re-appear) BCA204B RELATIONAL DATABASE MANAGEMENT SYSTEMS *Time* : 3 *Hours*] [Maximum Marks: 75 Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination. **Note**: Attempt *Five* questions in all, selecting at least one question from each Unit. Unit I 1. What is Relational data model? Also write Codd's Rule for Relational data model.

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P.T.O.

- Write short notes on the following: Write SQL update statements to perform the following in the 'Student' table Relational Calculus (a) mentioned below: Domain Calculus. (b) 15 Table: Student **Unit II** Student Number Class Name 17 Smith
 - Insert a new student, <'Johnson', 25, 1, 'Math'>, in the student table.

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- Change the class of student 'Smith' to 2.
- (iii) Delete the record for the student whose name is 'Smith' and whose student number is 17.
- Briefly describe the concept of referential integrity constraints. 6

Unit IV

7. Write a detailed note on PL/SQL and its execution environment. Also write the advantages of PL/SQL. 15

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- 3. What is the concept of Normalization? Also explain 2NF, 3NF and BCNF with suitable 15 examples.
- What is data redundancy? What are the disadvantages of having redundacy within a database? 7
 - What do you understand by functional dependencies? Also write characteristics of functional dependencies. 8

Unit III

- List and explain the basic data types available for attributes in SQL.
 - List and explain different scheme change statements available in SQL. 6

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