

Exam Roll No. 003152226

SEVENTH SEMESTER [B.TECH] NOVEMBER-DECEMBER 2018

**Subject: Advanced DBMS**

**Maximum Marks :75**

**Note: Attempt any five questions including Q no.1 which is compulsory.**

- Q1 Attempt **any five** questions: (5x5=25)
- (a) PL/SQL Database Objects
  - (b) Temporal Database
  - (c) Cursors
  - (d) Document Schema
  - (e) X-Query & X-Path
  - (f) Triggers
  - (g) Schema and Sub-Schema
- Q2 (a) Explain in the difference between Parallel database architecture & Distributed database architecture. (6.5)
- (b) Differentiate between fragmentation and replication. Mention all types of fragmentation and replication techniques. (6)
- Q3 (a) Explain in detail PL/SQL. Also explain Function, Packages & Trigger. Give example of each. (6.5)
- (b) Write a cursor which Access a database of employees and give bonus to some employees on certain conditions. Make assumptions regarding the fields and conditions. (6)
- Q4 (a) What do you understand by Authorization? (6.5)
- (b) Difference between JDBC & ODBC. (6)
- Q5 (a) Explain with an example the all kinds of Integrity Constraints & Domain Constraints. How are they enforced in Oracle? (6.5)
- (b) How the query can be optimized before processing. Why "Join" is considered as most expensive operation. (6)
- Q6 (a) Explain in detail XML & its Structure. (6.5)
- (b) Differentiate between HTML, DHTML and XML. What are cookies? (6)
- Q7 (a) What do you understand by Object relation database? (6.5)
- (b) Difference between Object Oriented & Object relational database. (6)
- Q8 (a) What are SQL Standards? Also explain standard of Interoperability & Integration. (6.5)
- (b) What do you understand by Web Services? Explain SOAP in detail. (6)