

Exam. Code : 103204

Subject Code : 1090

B.A./B.Sc. 4<sup>th</sup> Semester

## COMPUTER APPLICATION

(Relational Database Management Systems &amp; Oracle)

Time Allowed—Three Hours] [Maximum Marks—75

**Note :—**(1) Attempt any **FIVE** questions. All questions carry equal marks.

(2) Use of non-programmable and non-storage calculator is allowed.

1. (a) Give some salient features of Oracle along with its advantages and limitations over DBMS. 8  
(b) Define normalization. Why data is normalized ? Explain 2<sup>nd</sup> and 3<sup>rd</sup> normal form in this context. 7
2. (a) Explain any two database models of your choice. 8  
(b) Explain Database manager, query processor and other component of RDBMS system. 7
3. (a) Define SQL. Explain various SQL operators in detail with examples. 8  
(b) Explain any three data manipulation commands with suitable examples. 7

4. (a) Why aggregate functions are important ? Explain any three of your choice. 8
- (b) Explain various substitution variables with suitable examples. 7
5. (a) Explain “date and time functions” and “conversion functions” in detail. 8
- (b) Explain “NVC”, “Translate” and “Decode” functions. 7
6. (a) Explain some important functions of SQL plus. 8
- (b) How do you define PL/SQL block ? Explain through example. 7
7. (a) What is attribute ? How are they declared ? Explain % type attribute. 8
- (b) What is decision-making ? How is it performed in PL/SQL ? Explain. 7
8. Write briefly about :
- (I) Advantages of PL/SQL 3
- (II) Variable and constant declaration in PL/SQL 3
- (III) Working with columns in SQL plus 3
- (IV) Conversion functions 3
- (V) Data types. 3