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Exam. Code : 103205 Subject Code : 1196

B.A./B.Sc. 5th Semester COMPUTER SCIENCE

(Database Mgt. System and Oracle)

Time Allowed—3 Hours] [Maximum Marks—75 Note :— Attempt any five questions. All questions carry equal

marks. The students can use only non-programmable and non-storage type calculator.

- 1. Elaborate the three-level architecture of database system. Why we need mappings between the levels ? 15
- Tabulate the differences between Network and Hierarchical models.
 15
- 3. What are the similarities and differences between relational algebra and relational calculus ? What are the different types of relational calculus ? Discuss in detail. 15
- 4. What do you mean by normalization ? What are various forms of normalization ? Discuss in detail. 15
- What are various DDL commands available in SQL ? Explain any 5 commands in detail with their purpose and syntax.
- What is an index ? What are various types of indexes ? How do you create an index ? Explain with the help of an example.
- 7. What is a conditional control ? What are various types of conditional control used in PL/SQL ? 15
- What does trigger mean ? What are its uses and explain its working ? Make a comparison of before and after trigger. How a trigger can be deleted ?

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