

Data Base Management System**Paper : IT-202/252**

Time—Three Hours]

[Maximum Marks—75

Note :— Attempt any **Five** questions.

1. (a) What do you mean by Data Associations ? Explain. 7
(b) Are weak entities necessary ? What is the distinction between a weak entity and a strong one ? Can a weak entity be converted to a strong one ? 8
2. Explain the different file organizations in detail. 15
3. (a) Given the relation $R \{ABCDE\}$ with the FD's $\{A \rightarrow BCDE, B \rightarrow ACDE, C \rightarrow ABDE\}$. Give the lossless decomposition of R . 6
(b) Explain why there is renewed interest in unnormalized relations. What are its advantages compared to normalized relations ? 9
4. (a) Prove that every set of functional dependencies F is covered by a set of simple functional dependencies G , wherein each functional dependency has no more than one attribute on the right hand side. 8
(b) Consider the relation scheme $R(A,B)$. With no information about the FDs involved, can you determine its normal form ? Justify your answer. 7
5. Explain the Network Data Model in detail. 15

6. (a) Write the advantages and disadvantages of Distributed Database Management System. 8
(b) What do you mean by Locks ? Explain. 7
7. Explain the architecture of Oracle with diagram. 15
8. Write short notes on :—
- (a) B trees 5
(b) QBE 5
(c) Triggers. 5