

- 4 Attempt any **two** : 14
- (a) Discuss security features of MS Access
- (b) Explain 1st Normal Form
- (c) Explain Entity-Relationship model with proper example.
- 5 (a) Consider following table and set of functional dependencies holds on the table. Employee (Employee No, Employee Name, Designation, Date of birth, Branch Code, Branch name, Branch city, salary)
Functional dependencies:-
Employee No-> Employee name, Designation, Date of birth, salary.
Branch Code-> Branch Name, Branch City
Employee No-> Branch Code, Branch Name, Branch City
- (i) Find candidate key(s) for table ... 2
- (ii) State whether the relation is in 2NF or not? 4
Justify your answer ...
- (b) Consider following table (Underlined attributes forms the candidate key).
- Book Master (Book Code, ISBN, Title, Publication)
- Book Detail (Book ID, Book Code, Purchase Date)
- (i) Write relational algebra expression for followings ... 4
- (a) List Book ID, Title and ISBN for all books.
- (b) List titles for all books from 'Pearson' publication.
- (ii) Write SQL statements for followings ... 4
- (a) List total number of books within library.
- (b) Find Book Code for which maximum numbers of books have been purchased in the year 2009.
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