Instructions:

1. Answer the following: (attempt any six) 18
   (i) Define the terms: entity, domain, entity set, referential integrity, relationship set.
   (ii) What do you mean by database state and database schema?
   (iii) Write a note on Relational model.
   (iv) What do you mean by existence dependency?
   (v) What's the difference between logical and physical independence?
   (vi) What is a procedural and non-procedural language.
   (vii) Can relationship set have a property? If yes, explain with example.

2. Answer the following: (attempt any three) 18
   (i) Explain Storage management.
   (ii) Discuss different levels of abstraction.
   (iii) Differentiate relational model and network model.
   (iv) Write a note on Database architecture.
3 Do as follows: (attempt any three)  
(i) What is a degree of relationship? Why should one avoid higher order relationship?  
(ii) What is Domain? Explain different types of attributes.  
(iii) Differentiate DDL and DML.  
(iv) Discuss different types of Users.  

4 Do as directed:  
(i) What is dominant entity? Explain weak entity in detail with example.  

OR  
(i) State and explain the data types of MS Access.  
(ii) You and your team have been asked to develop software for Online food ordering. Perform following tasks for the same.  
(a) Prepare E-R diagram  
(b) Reduce at least 4 entities and relationships into tables.