

QP Code : 5443

(3 hours)

Total Marks: 80

- N.B. :** (1) Question number one is compulsory
(2) Attempt any three from remaining five questions
(3) Make suitable assumptions if needed

Q 1 (a) Draw E-R diagram for Hospital management System:

Convert E-R diagram into tables.

10

(b) Explain authorization in sql.

5

(c) List four significant differences between file processing system and database management system

5

Q. 2 (a) What is a deadlock? How is it detected? Discuss different types of deadlock prevention scheme.

10

(b) Explain following terms with suitable example

10

(I) Weak entity set

(ii) Data manipulation language

(iii) Foreign key

(iv) Super key

Q. 3 (a) When a transaction is rolled back under timestamp ordering, it is assigned a new timestamp, Why can it not simply keep its old timestamp?

10

(b) What is normalization? Explain 1NF, 2NF, 3NF and BCNF with examples

10

TURN OVER