Roll No.

Total No. of Pages: 02
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B.TECH (Sem.-5th)
DATABASE MANAGEMENT SYSTEM B.Tech (CSE, IT)
Subject Code: CS-305
Paper ID: [A0466]

Time: 3 Hrs.   **Max. Marks: 60**

INSTRUCTIONS TO CANDIDATE:

(i)Section –A, is Compulsory.

(ii)Attempt any four questions from Section-B.

(iii)Attempt any two questions from Section-C.

Section –A

10x2=20

Q.1. Write briefly

(a)   What is the need of DBMS?

(b)   Define scheme and instance

(c)   What is a weak entity

(d)   Define foreign key

(e)   Define views

(f)   What is a fully functional dependency

(g)   What is a transaction

(h)   Define schedule

(i)   What is deferred update

(j)   Define grant and revoke

Section –B

4x5=20

Q.2. Explain the difference between second normal form and third normal form with suitable example.

Q.3. Construct a ER diagram for a hospital management system with a set of patients and doctors. With each patient a series of various tests and examinations are conducted. On the Bases of preliminary report patient are admitted to a particular speciality ward.

Q.4. Write about the various data model in DBMS.

Q.5. Explain the architecture of DBMS with diagram.

Q.6. Explain the difference between procedural and non procedural and query language.

Section –C

2x10=20

Q.7. Explain data granularity and various multi granularity locking techniques.

Q.8. Discuss various database security issues.

Q.9. Write in detail various transaction properties and also explain conflict serializability.

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