Total No. of printed pages = 2

DATABASE MANAGEMENT SYSTEM

Full Marks – 70

Pass Marks – 30

Time – Three hours

The figures in the margin indicate full marks for the questions.

Answer any *five* questions.

1. What do you mean by Data Models and schemas ? What are the different categories of Data Models ?　　　　　2+2+10=14

2. What are the different types of DBMS languages? Explain about it.　　　　　14

3. Explain about three-tier and n-tier architecture for web application.　　　　　14

4. (a) What is E-R model ? What is entities and their attributes ? Give with example.

　　　　　5+5=10

   (b) What are the keys and value sets ?

　　　　　2+2=4

5. (a) Explain about RSA algorithm. 10

   (b) What is the principle of digital signature ?
   4

6. Explain about deadlock and also two different techniques to prevent deadlock. How can you detect deadlock ? 10+4=14

7. What do you understand by conversion of lock and explain upgradation and down gradation of lock. 4+10=14