

Total No. of Questions : ۸ [1] Total No. of Printed Pages : ۲

Roll No.....

CS-۵۰۰۳-CBGS

B. E. V Semester

Examination, June 2020

Choice Based Grading System (CBGS)

Data Base Management System

Time : Three Hours

Maximum Marks : ۷۰

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain Super key, primary key, candidate key with examples.
b) Develop an ER diagram for library management.
2. a) What is the significance of using the views? Write a command to create the view.
b) Explain strong and weak entities. How weak entity can be converted to a strong entity.
3. a) What are integrity constraints? Explain various types of integrity constraints with suitable example.
b) Explain Relational algebra with taking a suitable example.
4. a) Compute Canonical Cover Fc for the
R = {A, B, C, D} and FD's = {A BC,
B C, A B, AB C, AC D}
b) What is redundancy? What are the problem caused by the redundancy?

[2]

- 5.a) Explain serializability in transaction management.
- b) How concurrency is performed? Explain the protocol that is used to maintain the concurrency concept.

6.What is distributed database system? How it is different from the centralized database system? Give the use of distributed system.

7.What is Cursor Management? Explain nested and parameterized cursors.

8.Write a short notes (any three):

- i) Triggers
- ii) Normalization
- iii) Multimedia
- iv) SQL
