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Roll No

CS-502-CBGS

B.Tech., V Semester

Examination, June 2020

Choice Based Grading System (CBGS)

Database Management Systems

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

iii) All parts of each questions to be are attempted at one place.

question should be treated as final.

1. a) What is Data independence? Why is it essential? 7

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b) Discuss in detail about Primary file organization. 7

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PTO

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2. a) Explain about various constraints used in E-R model. 7
b) Why the concurrency control is needed? Explain it. 7
3. a) Explain in detail about internal hashing, techniques. 7
b) Differentiate Multivalued dependency and Join dependency. 7
4. a) Find the attribute closures of given FDs in relation R. 7
(R)
() = {AB → C, B → D, C → E, D → A}
b) What do you mean by Schedule? 7
5. a) Differentiate conflict serializability and view serializability with suitable example. 7
b) What is Normalization? Why it is required. 7
6. a) Explain why 4NF is more desirable than BCNF with the help of an example. 7

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- b) Differentiate physical level and logical level of data abstraction. 7
7. a) What is Log? How is it maintained? 7
- b) Explain data fragmentation with types. 7
8. a) Explain ACID property in detail. 7
- b) Write short note on any three of the following. 7
- i) Three level architecture of DBMS
 - ii) Database recovery
 - iii) Triggers in SQL
 - iv) Cursor in SQL
 - v) Functional dependency

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