

**SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI**  
**Hanuman Vyayam Prasarak Mandals's**  
**College of Engineering & Technology, Amravati**  
**Course: Information Technology**  
**B.E Four year Semester (Information technology) Summer 2020 Exam**  
**Subject: 6FEKS05 FREE ELECTIVE-II DATABASE MANAGEMENT SYSTEMS**

**Assignment for ONLY BACKLOG STUDENTS**

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**Instructions**

- 1) Solve Any Two Questions
- 2) Each Question Carries 10 marks

**QI) Solve the following.**

1. State the drawbacks of File processing system. 2M
2. Explain the Deletion operations in SQL. 2M
3. Explain First Normal Form. 2M
4. Explain Materialization 2M
5. Define transaction. 1M
6. Explain deadlock detection and recovery. 1M

**QII) Solve the following.**

1. Explain the various levels of Abstractions. 2M
2. Explain the Insertion operations in SQL. 2M
3. Explain Second Normal Form. 2M
4. Explain Pipelining 2M
5. Describe the ACID properties. 1M
6. What is deadlock? 1M

**QIII) Solve the following.**

1. What is DDL and DML? 2M
2. Explain the Updation operations in SQL. 2M
3. Explain Third Normal Form. 2M
4. What is meant by query optimization? 2M
5. What is Cascadeless Schedule? 1M
6. Explain Two-Phase Locking Protocol. 1M

**QIV) Solve the following.**

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| 1. What is database system?              | 2M |
| 2. Explain the basic domain types in SQL | 2M |
| 3. What is Normalization?                | 2M |
| 4. Explain nested loop join algorithm    | 2M |
| 5. Explain view serializability.         | 1M |
| 6. Explain validation based protocols.   | 1M |