

**SUBJECT: DATABASE CONCEPTS**

Day: Wednesday  
Date: 08/05/2019

**S-2019-1351**

Time: 02.30 pm to 05.30 pm  
Max. Marks: 60

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**N.B.:**

- 1) Q. No. 1 is **COMPULSORY**.
  - 2) Attempt any **FOUR** out of the remaining.
  - 2) Figures to the right indicate full marks.
  - 3) Draw neat diagrams **WHEREVER** necessary.
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- Q.1** Write short notes on any **FOUR** of the following: **(20)**
- a) Logical Unit of work
  - b) ACID
  - c) 2PL
  - d) Database Security
  - e) SQL
  - f) Data Model
- Q.2** Draw and explain ANSI architecture of DBMS. Explain the concept of logical and physical level of independence. **(10)**
- Q.3** Draw ER diagram of University database. Explain various types of entities and attributes used in your diagram. **(10)**
- Q.4** What are 'Aggregate functions' in SQL? Explain by taking suitable example. **(10)**
- Q.5** What is ETL? Justify the need of data warehousing in detail. **(10)**
- Q.6** What are Views? Explain the concept of privileges applied on the views for database administration. **(10)**

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