

**B.SC. (I. T.) SEM. - II (CBCS - 2015 COURSE) : WINTER -  
2017**

**SUBJECT: DATABASE MANAGEMENT SYSTEMS**

Day: **Tuesday**  
Date: **26/12/2017**

Time: **02.30 PM TO 05.30 PM**  
Max. Marks: 60

**W-2017-0847**

**N.B.:**

- 1) **Q. No. 1 is COMPULSORY.** Attempt any **FOUR** questions out of the remaining.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

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- Q.1** Write short notes on Any **FOUR** of the following **(20)**
- a) Database Users
  - b) JOINS
  - c) Cursors vs Triggers
  - d) Database Security
  - e) PL/ SQL
  - f) Constraints
- Q.2** What do you mean by 'Data Models'? Explain their usage for solutions in chronological order. **(10)**
- Q.3** Enlist and explain ACID properties of Transaction Management for DBMS by taking suitable example. **(10)**
- Q.4** Draw the schematic diagram of DBMS. Explain each of the components in detail. **(10)**
- Q.5** Explain each of them with examples: Entity Integrity, Referential Integrity, Key attributes, Weak entities & Cardinality. **(10)**
- Q.6** What are different Normal forms of the Database? Explain each of them in detail. **(10)**
- Q.7** Draw the ER diagram of 'Hospital Management System' by clearly explaining the suitable entities, attributes and their relationships. **(10)**

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