

B.Sc. (I. T.) Sem. - II (CBCS - 2015 Course) : WINTER - 2018
SUBJECT: DATABASE MANAGEMENT SYSTEMS

Day: Tuesday
Date : 27/11/2018

W-2018-1071

Time : 02.30 p.m. to 05.30 p.m.
Max.Marks: 60

N.B.:

- 1) Question No.1 is **COMPULSORY**.
 - 2) Attempt any **FOUR** of the remaining.
 - 2) Figure to the right indicates **FULL** marks.
 - 3) Draw neat diagram **WHEREVER** necessary.
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- Q.1** Explain any **FOUR** of the following: **(20)**
- a) ANSI SPARC architecture of DBMS
 - b) Data Model
 - c) Distributed Database
 - d) Logical Unit of Work
 - e) Concurrency Control
- Q.2** Compare File-based Management Systems Versus Database Management Systems in detail. **(10)**
- Q.3** Explain the concept of 'Transaction' in DBMS. What are ACID properties of transaction management? Explain. **(10)**
- Q.4** Draw an ER diagram of 'Hospital Management System'. Explain different entities, relationships and attributes used in diagram. **(10)**
- Q.5** Explain the concepts used in 'Database Security'. **(10)**
- Q.6** What are different 'CONSTRAINTS' used in SQL? Explain with examples. **(10)**
- Q.7** What do you mean by 'Database Recovery'? Explain any one technique used in recovery. **(10)**

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