

B.Sc. (I. T.) Sem. - II (CBCS - 2015 Course) : SUMMER - 2019
SUBJECT: DATABASE MANAGEMENT SYSTEMS

Day: Thursday
Date : 16/05/2019

S-2019-1273

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) Data Integrity
 - b) JOINS
 - c) Roles of DBA
 - d) Strong entity Vs Weak entity
 - e) ACID
- Q.2** What do you understand by RDBMS? Explain the concepts used in Relational Model. **(10)**
- Q.3** Explain various steps of 'Query Processing' in DBMS. **(10)**
- Q.4** Draw an ER diagram of 'Hotel Management System'. Explain different entities, relationships and attributes used in diagram. **(10)**
- Q.5** Explain various reasons for 'Database Failure'. What are different types of failures? Explain any one technique to recover the database. **(10)**
- Q.6** What do you mean by 'Database Design'? Explain various levels of design and concepts used at the same. **(10)**
- Q.7** Explain various SELECT operations in SQL with suitable examples. **(10)**

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