

B.Sc. (I. T.) Sem. - I (2011 Course) : WINTER - 2018
SUBJECT: DATABASE MANAGEMENT SYSTEMS

Day: Tuesday
Date: 27/11/2018

W-2018-1095

Time: 02.30 pm to 04.30 pm
Max. Marks: 40

N.B.:

- 1) Attempt any **FIVE** questions.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
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- Q.1** Explain the advantages of DBMS over traditional 'File Management Systems' in detail. **(08)**
- Q.2** What is ER modelling? Draw the ER diagram for 'College Management System' by using suitable entity types, attributes and relationships. **(08)**
- Q.3** Explain various concepts used in Relational DBMS. **(08)**
- Q.4** What is SQL? Explain various sub-types of SQL with appropriate examples. **(08)**
- Q.5** Explain various constraints used in SQL. **(08)**
- Q.6** What do you understand by 'Database Security'? What are different levels of securities in DBMS? **(08)**
- Q.7** Write short notes on any **TWO** of the following: **(08)**
- a) Normalization
 - b) Roles of DBA
 - c) ACID properties
 - d) Concurrency control

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