

B.SC. (I. T.) SEM. - I (2011 COURSE) : WINTER - 2017
SUBJECT: DATABASE MANAGEMENT SYSTEMS

Day: **Saturday**
Date: **23/12/2017**

Time: **10.00 am to 12.00 Noon**
Max. Marks: 40

W-2017-0864

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** Draw and explain ANSI architecture of DBMS. (08)
- Q.2** What is ER modelling? Draw the ER diagram for 'Library Management System' by using suitable entity types, attributes and relationships. (08)
- Q.3** Explain the concept of 'Normalization'. (08)
- Q.4** Explain ACID properties of 'Transaction Management' in DBMS. (08)
- Q.5** Explain different 'Aggregate functions' in SQL with suitable example. (08)
- Q.6** Explain various 'Data Models' by taking suitable examples. (08)
- Q.7** Write short notes on any **TWO** of the following: (08)
- a) Database Users
 - b) Database Security
 - c) DML
 - d) DDL