

**R09****Code: 9A05401**

B.Tech II Year II Semester (R09) Supplementary Examinations December/January 2015/2016

**DATABASE MANAGEMENT SYSTEMS**

(Common to CSE, CSS &amp; IT)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

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- 1 (a) What are the potential costs of implementing a data base system?  
(b) Define data redundancy. Explain what happens when the same data is stored at different places.
- 2 (a) Discuss about the Secondary keys and primary keys with examples.  
(b) What is subtype discriminator? Explain with example.
- 3 Explain about the following with examples:  
(a) 1:1 relationship.  
(b) 1:M relationship.  
(c) M:N relationship.
- 4 (a) What is the specific use of stored procedure? Explain with example.  
(b) Explain about all the date and time functions that are available in advanced SQL with syntax and example.
- 5 (a) What is decomposition? List the properties of decomposition.  
(b) Consider the following two sets of FD's:  
F = {AC → E, A → CD, B →, BC → D}.  
G = {A → CD, E → AH} check whether they are equivalent ? Justify your answer.
- 6 (a) Explain about lock granularity and lock types in concurrency control with locking method?  
(b) What are wait/die and wound/wait schemas? Explain.
- 7 (a) What are the issues that are considered in remote backup systems?  
(b) Discuss immediate database modifications and deferred database modifications, used in log based recovery.
- 8 Write a short note on various RAID levels.

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