**Code: R7220505**

**R07**

B.Tech II Year II Semester (R07) Supplementary Examinations December/January 2015/2016
## DATABASE MANAGEMENT SYSTEMS
(Common to CSE & IT)
(For 2008 Regular admitted batch only)

Time: 3 hours                                                                   Max. Marks: 80

### Answer any FIVE questions
### All questions carry equal marks

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1   (a)   Discuss about database system Vs file system.
    (b)   Explain about data abstraction.

2   (a)   Explain the following terms:
          (i) Relationship instance.
          (ii) Composite attribute.
          (iii) Multivalued attribute.
          (iv) Derived attribute.
    (b)   Write about attributes and entity sets.

3   (a)   Write about selection and projection.
    (b)   Explain about join operation.
    (c)   Write about set operation.

4   (a)   Define and explain multivalued dependency with example.
    (b)   Explain about aggregate operators with an example.

5   (a)   Explain about problems caused by redundancy.
    (b)   Write about decomposition.

6   (a)   Explain about lock based protocols.
    (b)   Explain about timestamp based protocols.

7   (a)   Discuss about failure with loss of non volatile storage.
    (b)   Explain about recovery with concurrent transactions.

8   (a)   Discuss about comparison of different file organization techniques.
    (b)   Explain about hash based indexing.

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