

Code: R7 421202

**R7**

B.Tech IV Year II Semester (R07) Advanced Supplementary Examinations, June 2012

**MULTIMEDIA DATABASES**

(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions

All questions carry equal marks

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- 1 (a) Explain the following multidimensional data structures:  
(i) k-d tree (ii) MX-Quadtree (iii) R-tree  
(b) Enumerate on the features of Object-oriented database.
- 2 (a) How to represent image DBs with relations?  
(b) Explain the implementation process for retrieving images by spatial layout.
- 3 Explain in detail latent semantic indexing and TV-trees.
- 4 (a) List and explain various video standards.  
(b) Explain how to capture audio content through discrete transformation.
- 5 (a) What is the principle of uniformity? How multimedia data is organized based on this principle? Explain.  
(b) Brief the query languages for retrieving multimedia data.
- 6 Obtain the efficient solution of temporal presentation constraints in distributed multimedia presentation.
- 7 Elucidate on different models of spatial information.
- 8 Give examples for the object relational schema queries.

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