

Code No: R5421202

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B.Tech.IV Year II Semester(R05) Regular & Supplementary Examinations, April/May 2010  
**MULTIMEDIA DATA BASES**  
(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions  
All questions carry equal marks

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1. (a) Briefly explain MX-Quad trees and Point Quad trees.  
(b) Discuss briefly about Object Oriented Databases with examples.
2. (a) What does raw image meant for? Discuss in detail various image processing paradigms.  
(b) Explain the implementation process for retrieving images by spatial layout.
3. (a) Discuss in detail about stop lists, word stems and frequency tables.  
(b) Explain different retrieval techniques for Text/Document databases.
4. (a) Explain how content of a single video can be organized.  
(b) How to index audio data in audio databases?
5. (a) Explain about the principle of uniformity.  
(b) How to organize multimedia data based on the above principle?
6. Briefly specify multimedia documents with temporal constraints.
7. Design an extended ER model with spatial concepts.
8. Explain extending SQL for spatial data with examples.

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1. (a) Explain k-d trees with examples.  
(b) Discuss various multidimensional data structures.
2. (a) Explain different image DBs Paradigms.  
(b) Explain briefly about similarity based retrieval systems and compressed image representations.
3. Explain in detail about latent semantic indexing and TV-trees.
4. (a) Explain video segmentation with examples.  
(b) Give a general model of audio data.
5. (a) Discuss about Query Relaxation/Expansion.  
(b) Explain in detail about media abstractions.
6. Explain spatial constraints in distributed multimedia presentations.
7. Explain how to extend ER Model Pictograms with examples.
8. Discuss about object relational schema with examples.

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1. (a) Discuss different multidimensional data structures.  
(b) Briefly discuss Point Quad trees.
2. (a) How to represent image DBs with relations?  
(b) Explain retrieving images with spatial layout. How to implement this?
3. Discuss in detail about Precision and Recall concepts in Text/Document Database.
4. (a) How to do Query for the content of video Libraries?  
(b) Give a detailed note on how to capture audio content through discrete transformations.
5. (a) Discuss query language for retrieving multimedia data.  
(b) Give neat architecture of multimedia data base.
6. Explain creating objects in multimedia presentations.
7. Discuss in detail about different models of spatial information's.
8. Discuss briefly about spatial Query Language.

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Time: 3 hours

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Answer any FIVE questions  
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1. (a) Explain briefly about Object Oriented Databases. Give examples.  
(b) Compare point Quad trees and MX-Quad trees.
2. (a) Explain the procedure to represent image DBs with R-trees.  
(b) Discuss in detail about segmentation in image processing.
3. Explain different retrieval techniques for Text/Document database.
4. (a) Give different Video Standards.  
(b) Discuss in detail about segmentation of Video.
5. (a) Explain about Indexing SMDSs with enhanced inverted indices.  
(b) How to do Design Multimedia Database? Explain.
6. Obtain the efficient solution of temporal presentation constraints in distributed multimedia presentation.
7. Discuss about object oriented data model with UML.
8. Give examples of queries that emphasis spatial data.

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