SET- 1

Code No: 2421201

IV B. Tech II Semester Regular Examinations, April/May 2009
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) Explain briefly about object oriented Databases . Give examples.
   b) Compare point quad trees and MX-Quad trees. (8+8M)

2. a) Explain different image DBs paradigms.
   b) Discuss in detail about segmentation in image processing. (8+8M)

3. Explain different retrieval techniques for text/Document database. (16M)

4. a) Give different video standards.
   b) Discuss in detail about segmentation of video. (8+8M)

5. a) Discuss about Query relaxation/Expansion.
   b) Explain in detail about media abstractions. (8+8M)

6. Give efficient solution of temporal presentation constraints in distributed multimedia presentation. (16M)

7. Explain how to extend ER model pictograms with examples. (16M)

8. Give examples of queries that emphasis spatial data. (16M)

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SET- 2

Code No: 2421201

IV B. Tech II Semester Regular Examinations, April/May 2009
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) Compare different data structures .
   b) Briefly discuss R-trees. (8+8)M

2. a) How to represent image DBs with relations?
   b) Explain similarity based retrieval systems. (8+8)M

3. Give a detailed note on Precision and Recall concepts in text/Document Database. 16M

4. a) Explain querying the content of video libraries.
   b) Give a detailed note on how to capture audio content through discrete transformations. (8+8)M

5. a) Discuss query language for retrieving multimedia data.
   b) Give architecture of multimedia data base. (8+8)M

6. Explain creating objects in multimedia presentations. 16M

7. Discuss in detail about different models of spatial information. 16M

8. Discuss briefly about Spatial Query language. 16M

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SET- 3

Code No: 2421201

IV B. Tech II Semester Regular Examinations, April/May 2009
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) Explain k-d trees with examples.
   b) Discuss various multidimensional data structures. (8+8)M

2. a) How to represent image DBs with R-trees? Discuss.
   b) Explain briefly about compressed image representations. (8+8)M

3. Explain in detail about latent semantic indexing. 16M

4. a) Explain video segmentation with examples.
   b) Give a general model of audio data. (8+8)M

5. a) Explain about Indexing SMDSs with enhanced inverted indices.
   b) Design Multimedia Database. (8+8)M

6. Explain spatial constraints in distributed multimedia presentations. 16M

7. Discuss about object oriented data model with UML. 16M

8. Discuss about object relational schema with examples. 16M

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SET- 4

Code No: 2421201

IV B. Tech II Semester Regular Examinations, April/May 2009
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. (8+8)M

2. a) What does raw image meant for ? Discuss in detail various image representations.
   b) Explain the implementation process for retrieving images by spatial layout. (8+8)M

3. Discuss in detail about word stems and frequency tables. 16M

4. a)Explain how content of a single video can be organized.
   b) How to index audio data in audio databases. (8+8)M

5. a) Explain about the principle of uniformity.
   b) How to organize multimedia data based on the above principle. (8+8)M

6. Briefly specify multimedia documents with temporal constraints. 16M

7. Design an extended ER model with spatial concepts. 16M

8. Explain how to extend SQL for spatial data with examples. 16M

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