

Code :R7421202

1

IV B.Tech II Semester(R07) Regular Examinations, April 2011
MULTIMEDIA DATABASES
(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Explain in detail about different multidimensional data structures.
2. (a) What is segmentation? What is the purpose of segmentation in storing the images in the databases?
(b) Discuss about the use of R-trees in representing image databases.
(c) What is raw image? List out the file formats which stores raw images?
3. Explain in detail about the following methods for document databases.
(a) Stop lists.
(b) Word stems.
4. Discuss different techniques for querying contents of video libraries.
5. (a) What is the principle of uniformity ? How this principle is useful in organizing multimedia data?
(b) List and explain about query languages for retrieving multimedia data.
6. (a) List out and explain objects in multimedia presentations.
(b) Give the efficient solution for temporal presentation constraints.
7. (a) List out and explain the different models of spatial information.
(b) Discuss about extending ER models to the spatial concepts.
8. How to extend SQL for spatial data ? Explain at least six different example queries for spatial data?

Code :R7421202

2

IV B.Tech II Semester(R07) Regular Examinations, April 2011
MULTIMEDIA DATABASES
(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Compare and contrast K-d trees, point quad trees, Mx-Quad trees and R-trees.
2. Discuss in detail about different ways of representing image data bases.
3. Explain in detail about the following methods for document databases.
 - (a) Latent semantic indexing
 - (b) TV-trees.
4. List out different video standards and explain them briefly.
5.
 - (a) Explain in detail about different types of multimedia database architectures.
 - (b) What is SMDS ? Discuss about querying SMDS?
6.
 - (a) List out and explain object in multimedia presentations.
 - (b) Give the efficient solution for temporal presentation constraints.
7.
 - (a) List out and explain the different models of spatial information?
 - (b) Discuss about extending ER models to the spatial concepts.
8. How to extend SQL for spatial data ? Explain at least six different example queries for spatial data?

Code :R7421202

3

IV B.Tech II Semester(R07) Regular Examinations, April 2011
MULTIMEDIA DATABASES
(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Discusses the following data structures in detail.
 - (a) K-d tress
 - (b) R-trees
2.
 - (a) Explain how image representations play a vital role in efficient image retrieval.
 - (b) Discuss about representing a compressed image.
3. Explain in detail about the following methods for document databases.
 - (a) Frequency Tables.
 - (b) Precision & Recall
4. Discuss the following in detail.
 - (a) General model of audio data
 - (b) Indexing audio data
5.
 - (a) Explain in detail about querying SMDS by using SMDS-SQL.
 - (b) Discuss in detail about HM-SQL.
6. Discuss the following terms:
 - (a) Temporal Constraints
 - (b) Spatial Constraints
7. Explain the following terms:
 - (a) ER model pictograms
 - (b) Object oriented data models.
8. How to extend SQL for spatial data ? Explain at least six different example queries for spatial data?

Code :R7421202

4

IV B.Tech II Semester(R07) Regular Examinations, April 2011
MULTIMEDIA DATABASES
(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Explain the following data structures in detail.
 - (a) Point Quad tress.
 - (b) R-trees.
2.
 - (a) Discuss about different image database paradigms.
 - (b) Explain about retrieving images by using spatial layout.
3. Discuss different types of retrieval techniques for text databases.
4.
 - (a) Discuss about capturing audio content through discrete transformation.
 - (b) Explain in detail about video segmentation.
5.
 - (a) List out and explain the requirements of multimedia DBMS?
 - (b) Discuss about major issues in multimedia DBMS?
6. Discuss the following terms:
 - (a) Temporal constraints
 - (b) Spatial Constraints
7. Explain the following terms:
 - (a) ER model pictograms
 - (b) Object oriented data models.
8. How to extend SQL for spatial data? Explain at least six different example queries for spatial data?
