

Q.P. Code : 798200

(3 Hours)

[ Total Marks : 80

- N.B. :** (1) Question No.1 is compulsory  
 (2) Solve **any three** questions from the remaining questions  
 (3) Assume suitable data if required

1. (a) Compare simple and predictive compression technique on the basis of implementation issues, speed of compression and decompression, performance. Name at least one method of each? 20  
 (b) Explain Motion Compensation  
 (c) Explain Card and Page based Authoring tools with Examples?  
 (d) Describe I,B,P and D picture related to MPEG encoding ?
2. (a) Explain different architectures for content organization in multimedia databases 10  
 (b) Explain speech coding using ADPCM 10
3. (a) Explain and draw neat and labeled diagram for encoder and decoder of H.261 10  
 (b) Differentiate between the BMP, JPG, GIF and TIFF image file formats mentioning where each is used? 10
4. (a) Compare Staggered Broadcasting and Pyramid Broadcasting for Video-on-Demand 10  
 (b) Explain different techniques of Search for Motion Vectors. 10
5. (a) Explain the Classification of MIDI messages. 10  
 (b) Explain Global Information Infrastructure functional model 10
6. Write short notes on :- 20
  - (a) Design challenges in Multimedia Networking
  - (b) Digital broadcasting applications
  - (c) IETF Multimedia Internet Standards
  - (d) Application of Multimedia databases

