

24268

B.Tech. 5th Semester (Computer Science & Engg.)

Examination, December-2012

MULTIMEDIA TECHNOLOGIES

Paper-IT-204-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : Question No. 1 is compulsory. Attempt any one question from each section. All questions carry equal marks.

1. Explain the following : 5×4=20
- (a) Multimedia Databases
 - (b) PNG
 - (c) Need for Audio Compression
 - (d) VEOS.

Section-A

2. (a) Define Shading. Explain the various shading models. 10
- (b) Discuss the types of multimedia authoring systems in detail. 10
3. (a) What is multimedia ? Describe the framework for multimedia systems. 10
- (b) Write a short note on ADSL in multimedia distribution network. 10

Section-B

4. (a) Explain the different types of computer color models in detail. 10
- (b) What is JPEG ? Enumerate its objective, applications and architecture. 10
5. (a) Compare BMP and TIFF file format. 8
- (b) What are the various models of JPEG encoding schemes ? Explain JPEG image compression standards. 12

Section-C

6. (a) Explain the concept of MPEG in detail. 10
- (b) What is DVI technology ? Explain its working. 10
7. (a) Explain any two techniques for encoding analog signals. 10
- (b) What are the main advantages of digital signals over analog signals ? Describe quantization in detail. 10

Section-D

8. (a) What do you mean by virtual reality ? Explain its multimedia applications with example. 10
- (b) What are intelligent VR software systems ? 10
9. (a) Write a short note on VR displays. 10
- (b) Discuss the features and applications of virtual reality. 10