

Roll No.

2118

B. E. 4th Semester (I. T.)

Examination – December, 2009

MULTIMEDIA TECHNOLOGIES (MT)

Paper : IT-204-E

Time : Three hours]

[Maximum Marks : 100

Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *five* questions. All questions carry equal marks.

1. What is multimedia ? Give various classifications of multimedia. Describe various multimedia applications in detail. 20
2. (a) Why is n't it always best to use the highest sampling rate and highest resolution when recording sound files ? JUSTIFY. 10
(b) What are the main advantages of digital system over analog systems ? Describe encoding and quantization in detail 10

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3. (a) Explain how authoring tools and presentation tools helps in making multimedia projects ? 10
- (b) What is DVI technology 10
4. (a) What is the difference between lossy and loss less Compression ? What are the advantages and disadvantages of each ? 10
- (b) What is animation? Discuss various animation techniques. 10
5. Discuss JPEG standard for image compression with its DCT encoding and Quantization, Predictive loss less coding and its performance. 20
6. (a) What are the key parameters to be considered for evaluating a compression system? Discuss various video techniques 10
- (b) What is animation? Discuss the principles of animation. 10
7. (a) What do you mean by Virtual reality? Discuss its areas of application 10

- (b) What are intelligent VR software systems?
Discuss the requirements of visually coupled systems 10

8. Write short notes on :

- (a) Video on demand 10
(b) MPEG 10
