

**B. E. 4th Semester (IT) Examination,
May-2010**

MULTIMEDIA TECHNOLOGY

Paper-IT-204-E

Time allowed : 3 hours] [Maximum marks : 100

Note : Attempt any **five** questions.

1. What is multimedia ? Discuss a framework for multimedia systems. Also write its applications in various domains. 20
2. (a) Discuss the structure of the encoder for MPEG layer 1 and 2. 15
(b) Discuss Sampling Theorem. 5
3. Discuss JPEG standard for image compression with its objectives, architecture and performance. 20
4. (a) What is Virtual Reality ? Explain its areas of application. 10
(b) What are intelligent VR software systems ? Explain VR operating system. 10

5. (a) How analog signal is converted into digital signal ? Discuss various methods of encoding the analog signals. 10
- (b) How do we evaluate a compression system ? Discuss time based media representation. 10
6. (a) Explain animation with its usage and techniques. 10
- (b) Discuss one compressed and one uncompressed image file format. 10
7. (a) What are colour palettes ? Discuss in reference to 3D drawing. 10
- (b) What is anti-aliasing ? When do we use it ? 10
8. Write short notes on any *three* : 20
- (i) Multimedia servers and data bases.
- (ii) Stereophonic and quadraphonic signals.
- (iii) Morphing
- (iv) Desktop virtual reality.