

Code No: **RT41058****R13****Set No. 1****IV B.Tech I Semester Supplementary Examinations, February/March - 2018****MULTIMEDIA COMPUTING****(Common to Computer Science and Engineering and Information Technology)****Time: 3 hours****Max. Marks: 70***Question paper consists of Part-A and Part-B**Answer ALL sub questions from Part-A**Answer any THREE questions from Part-B************PART-A (22 Marks)**

1. a) Explain about 24 - Bit color Images. [4]
- b) List the types of video signals. [3]
- c) What is ADPCM in Speech coding? [4]
- d) Define the terms quantization and encoding. [4]
- e) Write about MPEG. [3]
- f) Write about Media-on-Demand (MOD). [4]

PART-B (3x16 = 48 Marks)

2. a) Explain about image data types. [8]
- b) Explain about image file formats. [8]
3. Define the terms digital audio & MIDI. List the differences between digital audio & MIDI. [16]
4. a) Explain about run-length coding. [8]
- b) Explain about dictionary based coding. [8]
5. Explain the following Lossy compression algorithms:
 - a) Transform Coding
 - b) Wavelet-Based Coding
 - c) SPIHT[16]
6. Explain in detail about various video compression techniques. [16]
7. a) Define multimedia network. Write the basics about computer and multi-media Networks. [8]
- b) List multimedia network applications [8]