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
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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   [8]
        Networks.
    b) List multimedia network applications   [8]