

Total No. of printed pages = 2

Co-404/EOM/4th Sem/2016/N

ELEMENTS OF MULTIMEDIA

Full Marks – 70

Pass Marks – 28

Time – Three hours

The figures in the margin indicate full marks for the questions.

Answer question No. 1 and any *five* from the rest.

1. Answer the following questions : $2 \times 5 = 10$

- (a) What do you mean by multimedia ?
 - (b) What do you mean by Psychoacoustics ?
 - (c) What is quantization ?
 - (d) What is sampling ?
 - (e) What do you mean by colour depth ?
2. (a) List the uses of multimedia in education. 6
- (b) State the principle of ADC and DAC. 6

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3. (a) What do you mean by colour model and colour characteristics ? $4+4=8$
- (b) What is Image Manipulation ? 4
4. Why compression is needed ? Discuss any two image compression techniques. $4+4+4=12$
5. (a) Give the principle of digital still camera. 6
- (b) Write brief note on printers. 6
6. (a) What do you mean by line, field and frame ? 3
- (b) Write brief note on NTSC, SECUM, PAL. 9
7. (a) State Nyquist principle. 2
- (b) What do you mean by component video and composite video ? 4
- (c) Write a brief note on video compression. 6
8. Write short notes on any *three* : $4 \times 3 = 12$
- (a) Perception of human eye
- (b) Additive colour and subtractive colour
- (c) Amplifier and microphone
- (d) Scanner.