Total No. of printed pages = 3 Co-404/EoM/4th Sem/Comp/2017/M

ELEMENTS OF MULTIMEDIA

Full Marks - 70

Pass Marks - 28

Time - Three hours

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

Attempt question No.1 and any five from the rest.

1. Define the following terms (any five):

2×5=10

(i) Multimedia

(ii) Digital Audio

(iii) Colour Depth

(iv) Sampling

(v) Aspect Ratio

(vi) Colour palette

(vii)Quantization.

[Turn over

2. (a) Discuss briefly the uses of Multimedia. 8

(b) Write a brief note on psycho acoustics. 4

- (a) Discuss briefly the functions of ADC/DAC for conversion of analog sound to digital and vice versa.
 - (b) Write brief note on digital audio format.
- 4. (a) What do you mean by additive colour and subtractive colour ? 4
 - (b) Write brief note on colour model and colour characteristics.
 - Why Image compression is necessary ? Write a brief notes on any two image compression techniques.
 2+5+5=12
- 6. (a) Write a brief note on Digital Still Camera.
 - (b) Write brief note on TV broadcast standards PAL and NTSC. 6

(2)

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7. (a) What is Nyquist Theorem ? Discuss briefly about component and composite video.

2+6=8

- (b) Discuss briefly the lossless and lossy video compression techniques. 4
- 8. Write short notes on (any three) : $3 \times 4 = 12$
 - (i) Microphone
 - (ii) Perception of human eye
 - (iii) Scanner
 - (iv) Video formats lines, frames and fields.