Co-404/EoM/4th Sem/2013/N

ELEMENTS OF MULTIMEDIA

Full Marks - 70

Pass Marks - 28

Time - Three hours

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

Attempt any five questions.

- 1. (a) Define multimedia. What are its uses in the field of Education and Business?
 - (b) Define the following terms:

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- (i) Sampling rate
- (ii) Quantization
- (iii) Clipping
- (iv) Resolution.
- 2. (a) What is acoustics of sound? Write a brief note on psychoacoustics. Why psychoacoustics is important in multimedia?
 - (b) What are the advantages and disadvantages of MIDI over digital audio files?

[Turn over

	(c)	What do you mean by 16 bit and 24 bit colour depth?
4.	(a)	Define Scaling, Cropping and Rotation in relation with image.
	(b)	What do you mean by Lossy and non-lossy image compression?
eke A	(c)	Write brief note on JPEG image compression 4
5.	(a)	Discuss briefly the different TV broadcas standards.
	(b)	Write brief note on image manipulation- scaling, cropping and rotation, 6
6.	(a)	What do you mean by video compression? Why is it needed? What are the techniques available for video compression?

(b) Define video formats, lines, frames and

(2)

fields.

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3. (a) What do you mean by perception of

(b) Define vector and raster graphics.

subtractive colours?

human eye? What are additive colours and

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7. Write short notes on any two:

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- (a) Amplifier
- (b) Digital camera
- (c) MIDI
- (d) Component and composite Video.