## END SEMESTER/RETEST EXAMINATION, 2020 (NEW)

Semester: 3rd Subject code: CO-302

Subject: Elements of Multimedia Full Marks: =70 (part A-25 + Part B-45)

Duration: 3 hours

**Instructions:** 

Questions on Part A are compulsory Answer any 5 (five) questions from Part B



Questions no.	Questions	Marks
Question 1	Choose the correct answer:	1x5=5
a)	Multimedia is	1
	A) Moving images and text	
	B) Images and audio	
	C) Integration of still and moving images, text, and sounds by	
	means of computer technology.	
	D.) Programs that combine text and images on a television screen	
b)	Sound pressure is measured in	1
	A) Bauds B) Bits	
	C) Decibels D) Watts	
c)	RGB model is used for	1
	A) Computer display B) Printing	
	C) Painting D) Scanning	
d)	Thresh hold of hearing is	1
	A)20 Hz B) 20 KHz	
a)	C)10 Hz D) 10 KHz A Video consist of	
e)	A Video consist of	1
	A) Frames B) Signals	
	C) Slots D) Packets	
Question2	Fill in the blanks	1x5=5
a)	The branch of physics that studies sound is called	1
b)	CMYK model is used in	1

c)	The full form of JPEG is	1
d)	Images that are stored using line, arcs and curvesimages.	1
e)	Three bits can representcolours	1
Question 3	State True Or False	1x10 =10
a)	Acoustics is the branch of physics that studies graphics.	1
b)	The pigment that may be defined as the absence of color is black.	1
c)	JPEG and GIF images are the most common bitmap format used on the web.	1
d)	Photoshop is a image editing software.	1
e)	TIFF is a video compression technique.	1
f)	Lossy image compression is exactly reversible.	1
g)	MPEG is used to compress video.	1
h)	Scanner is an input device for creating multimedia project	1
i)	Sound Forge is anvideo editing software.	1
j)	The aspect ratio of HDTV is 4:3.	1
Q)4	Answer the Following:	1x5=5
a)	Name one element of multimedia.	1
b)	Give the Full form of CRT.	1
c)	Give the Full form of MIDI.	1
d)	Name one audio file format.	1
e)	Define Colour Depth.	1

## PART-B MARK-45

## Instructions: Attempt any 5 (five) Questions:

Question no.	Questions	marks
5 a)	Discuss briefly the need of multimedia in the field of Education.	. 4
b)	Write a brief note on psychoacoustics.	3
c)	What do you mean by digital audio?	2
c)	What do you mean by digital audio?	

6 a)	What are the function of ADC and DAC ?Name the important	2+3=5
	factors which govern the ADC and DAC processes.	2
b)	Write advantages and disadvantages of MIDI over digital audio	4
7 a)	What do you mean by Sampling and Quantization?	4
b)	Write brief note on additive colour and subtractive colour.	5
8 a)	Write a note on image manipulation.	4
b)	Write a brief note on colourmodel.	5
9 a)	Why compression is needed?	2
b)	Write briefly about Lossy and Lossless Image compression?	5
c)	Write a brief note on GIF image.	2
10.	Write the principles of	9
	a) Digital Still camera	
	b) Scanner.	
11 a)	Define field andframe in terms of video formats.	4
b)	Write brief note on Composite video and Component video	5
12	Write short notes on (any Three )	3x3=9
	a) Amplifier b) Colour Characteristics	
	c) NTSC d)MPEG	

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