Total number of printed pages = 5

## 19/2nd Sem/DAMT 202

FUAL LIF

2022

## **ELEMENTS OF MULTIMEDIA**

Full Marks - 100

Time – Three hours

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

Answer Question No.1 and any four from the rest.

1. (a) Fill in the blanks :  $1 \times 10 = 10$ 

- (i) Time independent media are called media.
- (ii) The two amplitude levels of a digital signal are called \_\_\_\_.

(iii) 8-bit colour images are also called colour images.

(iv) White, black and grey are \_\_\_\_\_ colours.

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(v) The unit of sound volume is measured in \_\_\_\_\_.

(vi) The waveform of noise is \_\_\_\_\_\_\_ in nature.

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- (vii) Each still image in a video is called as a
- (viii) \_\_\_\_\_ describes the dimensions of video screens.
- (ix) The range of a PAN is \_\_\_\_\_ metres.
- (x) mIRC is an example of an
- (b) Write True or False :  $1 \times 10 = 10$ 
  - (i) Analog hardware is flexible.
  - (ii) Lempel Ziv Welch Coding is a lossy data compression technique.
  - (iii) Cone cells are better for low light vision.
  - (iv) Mixing of the primary colours Red and Blue yields Yellow.
  - (v) Sounds higher than 20 KHz are called ultrasounds.

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- (vi) The quality of a MIDI file is dependent on the size of the file.
- (vii) In a 1080p video, the 'p' represents pixels.
- (viii) In a component video, the colour information is carried out in three different channels.
- (ix) To experience Augmented Reality, one requires a mobile phone with a good video camera.
- (x) Google is a web browser application.
- 2. (a) Mention six fields with examples where multimedia can be applied? 6
  - (b) What are the characteristics of a multimedia system?
  - (c) Describe the process of ADC and DAC with a diagram. 10
- 3. (a) What do you understand by colour perception? 5
  - (b) Briefly describe the various colour depths available in a computer system. 7
  - (c) Describe any four colour models.

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coustics. 4	Explain acoustics and psychoad	(a)	4.
of musical 6	Describe the characteristics sounds.	(b)	
Digital Audio 10	State the differences between I and MIDI.	(c)	JEN SH
ast standards. 6	Discuss the different TV broadca	(a)	5.
3×3=9	Describe the following :	(b)	
	(i) Component Video		
	(ii) Composite Video	14-14-14 1	
	(iii) Stereoscopic Video.	14. V	
st's Sampling 5	What is sampling ? State Nyqui Theorem.	(c)	
	What are the different types networks? Explain them with	(a)	6.
vhat are it 2	What is an email and we characteristics?	(b)	
/irtual Realit	Describe the different types of v systems.	(c)	
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7. Write short notes on any *four* of the following:  $4 \times 5=20$ 

- (a) Typefaces
- (b) Emoticons
- (c) Document Orientation
- (d) ASCII Character Set
- (e) Unicode
- (f) Script.

(5)

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