Total number of printed pages = 5^*

19/2nd Sem/UMCD 202

FLALLIA

2022

INTRODUCTION TO MULTIMEDIA COMMUNICATIONS

Full Marks - 100

Time – Three hours

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

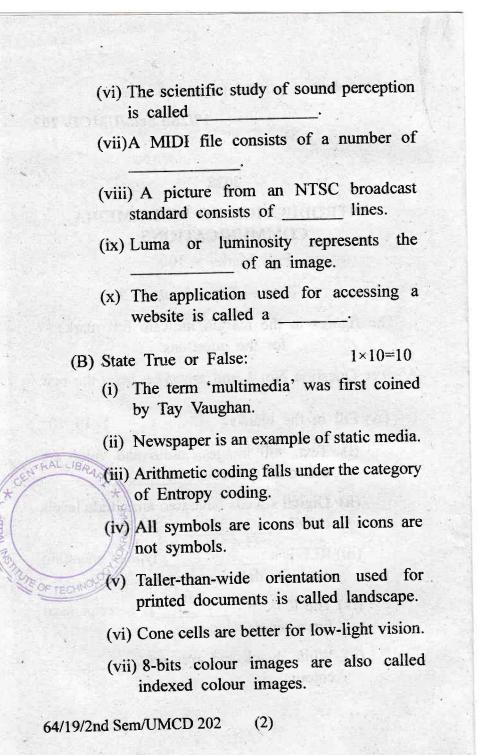
Answer Question No. 1 and any four from the rest.

1. (A) Fill in the blanks :

1×10=10

- (i) Text, still images, audio and video are called Multimedia
- (ii) Digital signals have two amplitude levels called _____.
- (iii) RLE is a _____ type of encoding used for data compression.
- (iv) The Korean _____ is a script used for a single language.
- (v) White, black and grey are _____ colours.

[Turn over



		(viii) An amplifier is dependent on external energy source.
•		(ix) The 'p' in a 1080p video denotes 1080 pixels.
		(x) The range of a Personal Area Network
•		is 10 metres.
2.	(a)	Mention the areas where multimedia can be
and a	()	applied. 5
	(b)	State the differences between Analog and
	(-)	Digital signals. 5
	(c)	Describe the process of ADC and DAC with
	(-)	a diagram. 10
3.	(a)	What is a Typeface? How is it related to a
		Font? What are Font styles? $2+2+2=6$
	(b)	Write briefly about the following: $3 \times 3 = 9$
		(i) ASCII Character Set
		(ii) Extended Character Set
		(iii) Unicode.
	(c)	How are hypertext and hypermedia different
		from traditional text and media? 5
		그렇게 걸려 가 있었다. 이렇게 가 한 것은 것은 것이 하는 것이 가 있었다.

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CENTRAL UB	Mary .
	What are the differences between Raster Graphics and Vector Graphics? 8
4. (a)	What is an alpha channel? What are the benefits of using an alpha channel? 2+2=4
) Describe the different colour models briefly. 8
5. (a) How is acoustics different from psychoacoustics? 4
(b) What are the characteristics of musical sound? 6
(c) Describe the composition of a MIDI file with a diagram. 10
6. (a) What are Frame Rates and Aspect Ratio?
(b) Describe the process of interlacing. Why was it used? 7
(c) What are the various existing TV Broadcas Standards found worldwide? Describe them briefly. 9
7. (a) Describe the different types of compute networks with a diagram. 10
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(b) Write short notes on the following with examples : $2 \times 3=6$

(i) Web Browsers

(ii) E-mail

(iii) HMD.

(c) What are the different types of Virtual Reality Systems? 4

50

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