## 2025

## 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: $(10x1 = 10)$
	. Information searching is an example of multimedia application in the field of
ii	Programs that enable a computer to function are called
iii	
iv	
V	
V	is called .
vi	
vii	Vester Crarbies are reade un of
viii	
ix	
IX	
X	The full form of CAVE is
Λ	असता मा सत् गमय
	तमसो मा ज्योतिर्गमय
B)	State True or False.: $(1 \times 10 = 10)$
i)	The term 'multimedia' was first coined by David Sawyer.
ii	i) Analog signals are denoted by square waves.
ii	ii) Data compression can sometimes increase the file size.
iv	v) Continuous media are time independent.
V	r) Text is a kind of signal.
V	ri) Cone cells are better for low light vision.
V	rii) Resolution of a bitmap image is fixed.
V	riii) Yellow is a primary colour in the Artistic Colour Model.
i	x) Display resolution is measured in dots per inch.
X	Google is a web browser application.

2.	B)	Define Multimedia. What do you use multimedia mostly for?  Name any five fields where multimedia can be applied? Give examples of Explain the process of ADC with a diagram.	(2+3=5) each. $(10)$ $(4+1=5)$
3.	A) B) C)	Draw clearly any 5 symbols which are not icons.	$     (5) \\     (5x2 = 10) \\     (5) $
4.	A) B) C)	Describe any two-colour systems/models.	$   \begin{array}{c}     (6) \\     (5+5=10) \\     (4)   \end{array} $
5.	A) B) C)	State the differences between MIDI and Digital Audio.	$     (4) \\     (5+5=10) \\     (6) $
6.	B)	What is sampling? State Nyquist's Theorem.  How does a component video differ from a composite video?  Describe the different type of computer networks with diagrams.	(2+2=4) (3+3=6) (8+2=10)
7.	Wr A) B) C) D) E) F)	Data Compression Anti-aliasing Dot-matrix printers Amplifiers	(4x5 = 20)
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