BN	ID 171203
Rol	l No. of candidate
	2019
B.E	Des. (MCD) 2nd Semester End-Term Examination
	INTRODUCTION TO MULTIMEDIA COMMUNICATIONS
	(New Regulation)
Ful	l Marks – 70 . Time – Three hour
1.	Answer question No. 1 and any $four$ from the rest: Choose the correct answers from the followin
1.	questions: $(10 \times 1 = 10)$
	(i) The term 'multimedia' was first coined by:
	(a) David Sawyer
	(b) TayVaughan
	(c) Iris Sawyer
	(d) Bobb Goldstein
	[Turn ove

Total No. of printed pages = 4

(ii)	Staff training	applications	are	associated	with	
	the field of:		01/2			

- (a) Military
- (b) Education
- (c) Business
- (d) Mathematical and scientific research
- (iii) Which among these is a lossy data compression algorithm?
 - (a) Huffman Algorithm
 - (b) RLE
 - (c) LZW
 - (d) JPEG
- (iv) The ASCII character set is made up of how many bits?
 - (a) 7 bits
 - (b) 8-bits
 - (c) 127 bits
 - (d) 128 bits
- (v) Which among the following is not a Graphics?
 - (a) Photographs
 - (b) Buttons
 - (c) Charts
 - (d) Movies
- (vi) In a RGB colour system, adding Red and Blue gives:
 - (a) Yellow
 - (b) Cyan
 - (c) Magenta
 - (d) Black

(vii)		frequency range of normal human beings between:
	(a)	20 Hz – 20,000 KHz
	(b)	20 KHz — 20,000 KHz
1	(c)	20 Hz — 20,000 Hz
	(d)	20 KHz — 20,000 Hz
(viii)		frame rate of a picture in NTSC broadcast em is:
	(a)	24Hz
	(b)	25Hz
	(c)	29Hz
	(d)	30Hz
(ix)	Whi	ch among the following is a web browser?
	(a)	Windows 10
	(b)	Adobe Flash .
	(c)	Safari

The game 'Pokémon Go' implements the

State with examples, the various fields where

(b) Mention five differences between Analog

(x)

(d) Google

(a) Immersive

(b) Non-immersive

Augmented Text-based

following type of VR system:

multimedia can be applied.

Signals and Digital Signals.

(10)

3.	(a)	What are the cases in Text? Explain then briefly. (2+2=4)
	(b)	Write brief notes on: $(3 \times 2 = 6)$
		(i) The ASCII Character Set and
		(ii) The Extended Character Set.
	(c)	How can you differentiate between symbols and icons? (5
1.	(a)	What are the differences between Vector Graphics and Raster Graphics? (4)
	(b)	What is an alpha channel and what are the benefits of using it? (1+4=5)
	(c)	Describe the characteristics of colour. (6
5.	(a)	What are the differences between MIDI and Digital Audio? (6
	(b)	Describe the characteristics of musical sound.(6
	(c)	Explain 'noise' and provide examples to suppor your answer. (3
	(a)	What are interlaced and progressive video? (3+3=6)
	(b)	Write short notes on the following video formats: $(3 \times 3 = 9)$
		(i) .FLV
		(ii) .MP4
		(iii) .MOV
	(a)	Describe LAN and WAN networks with diagrams. (3+3+2=8
	(b)	What are the different tools associated with Virtual Reality? (7