

1 x 15=15



BRAINWARE UNIVERSITY

Term End Examination 2022 Programme – BCA-2019/BCA-2020 Course Name – Introduction to Multimedia Course Code - BCAC502 (Semester V)

Full Marks : 60 Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A (Multiple Choice Type Question) 1. Choose the correct alternative from the following: (i) JPEG may be explan as a) Joint photographic Exports Group b) Joint Physical Experts Group c) Joint Physical Exports Group d) Joint Photographic Experts Group (ii) Identify the minimum refresh rate to avoid flicker for all motion devicesa) 30Hz b) 40Hz c) 50Hz d) 70Hz (iii) Two parts of Morphing algorithms are describe asa) Warp & Tweening b) Tweening & Wrap c) Wrap & Dissolve d) Tweening & Dissolve (iv) Define which image files are a lossy format? a) GIFB b) MPEGC c) JPEG d) PNG (v) Tell a good example of hypermedia a) The internet b) Level1 video disc c) Audiotape d) Videotape (vi) State which compressions provide some loss of quality? a) Lossy b) Loss less c) Cell based d) Object based (vii) Define, JPEG is a file format for ____ a) Video file b) Graphics image c) Audio File d) Text File (viii) Explain MP3 is an extension of a____ file. a) Video file b) Graphics image

d) Text File

b) 24 d) 40

c) Audio File

a) 16

c) 32

(ix) The MIDI standard establishes how many channels?

(x) Explain that a compressed audio/video file can be downloaded as a

	a) Image	b) Video d) Text file		
(xi)	c) Frame d) Text file) Number of frames displayed by a monitor in one second can be measured as-			
	a) Dot pitch	b) Aspect ratio		
	c) Resolution	d) Color depth		
(xii	Hz can be iilustrate as			
	a) Number of recording console	b) brand name of audio equipment		
	c) short form of hertz	d) None of these		
(xiii	xiii) Anticipate that sound cannot travel through a			
	a) plasma	b) gas		
, .	c) medium	d) vacuum		
(XIV	(xiv) Select the correct answer:A decibel is one tenth of a			
	a) bel	b) hz		
<i>1</i>	c) Bit	d) byte		
(xv	Select which interdisciplinary science deals with infrasound -	i the study of sound, uitra sound and		
	a) Acoustics	b) audio engineering		
	c) notation science	d) none of these		
	Grou	o-B		
·			3 x 5=15	
2. (2. Create a R - tree to explain the spatial database.			
3. What is lip synchronization?			(3)	
	4. Describe " Nyquist" theorem and write its application area			
	5. Compare the NTSC, PAL and SECAM system of standard for television.			
6. E	xplain ' Virtual Reality'.		(3)	
OR Differentiate between mp3 and mp4.			(3)	
	merentiate between mp3 and mp4.		(3)	
Group-C				
	(Long Answer Ty	oe Questions)	5 x 6=30	
7.	What are the uses of multimedia?		(5)	
	A magnetic disc pack has 12 surfaces, out of which	h 10 are recordable. Each surface has 50		
	tracks and each track is divided into a number of sectors. If the total capacity of the disc is			
	50000 KB and the capacity of each sector is 512 bytes then calculate how many sectors are			
	present on each track and how many cylinders are present in the disc pack?			
	Describe the working principle of monochrome C		(5)	
	Encode the string 'BBBBFFFRRRTFFGGHH' using I	• •	(5)	
	What is DCT and why DCT is important for compr	ession?	(5) (5)	
12.	Explain the principles of animation. OR		(5)	
	Explain the terms: 'Frequency', 'Amplitude', 'Wav		(5)	
			(-)	
