AMT-301/MS&T/3rdSem/2018/M

MULTIMEDIA SYSTEMS & TECHNOLOGY

in (c) Sound whose frequency is above 20,000 Hz

Full Marks - 70

Pass Marks - 28

Time - Three hours

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

Illustrate your answers with suitable sketches and examples wherever necessary.

of the technique A-TRAP stringere effect in

All questions are mandatory

1.	Fill	l up the gaps:	1×15=15
	(a)	Hardware and Software are the of Multimedia.	
	(b)	Time dependent medium are l	known as
	(c)	Digital signals have two amplitucalled	ide levels
		STREET, WE TANK	Turn over

	Windows 10 is a software.
	Sound whose frequency is above 20,000 Hz is called
(f)	LZW encoding is used in data compression.
(g)	Boldface is a typical font
(h)	The smallest unit of a digital image is known as
(i)	Tones are created by adding to a hue or colour.
	The technique to reduce staircase effect in limited resolution output devices is called
(k)	The Y-signal encodes information in the YUV colour model.
(1)	Laser printers are also sometimes known as printers.
(m)	The unit of sound volume is called
34/AMT	-301/MS&T (2)

	(n)		range of ends to _			A STATE OF THE PARTY OF THE PAR		3	N)
	(0)		process fields is			a single			m
2.	Choose the correct answer from the following questions: $1 \times 10 = 10$								
- 10	(A)	Whi	ich amo	ng the	fo	ASCII o	The		a
		(i)	Graphics	Action to the last	(ii)	Animati			
		(iii)	Televisio	on (vi)	(iv)	Video			
	(B) What is the shortcut key combination to deselect a selected area in Adobe Photoshop?								
		(i)	Ctrl+T	(ii)	(ii)	Ctrl+D			
		(iii)	Ctrl+M	(4)		Ctrl+E			
	(C)		ch Colo	ur Sys					ur
		(i)	RGB		(ii)	HSB	0		
		(iii)	СМҮК		(iv)	YUV			
34/4	AMT-	301/	MS&T	(3)			[Tu	m ove	er

algorithms creates a Binary Tree?
(i) Run Length Encoding
(ii) Huffman Algorithm
(iii) JPEG if to see to to the control of
(iv) LZW
(E) The ASCII character set is made up of how many bits?
(i) 7 (ii) 8
(iii) 127 (iv) 128
(F) A printed page might be presented in which of these orientations?
(i) Newscape (ii) Portrait
iii) Flat-file (iv) Node
G) TIFF stands for:
(i) Transitional Image File Format
(ii) Total Inclusion File Format
(iii) Table Index File Format
(iv) Tagged Image File Format
34/AMT-301/MS&T (4)

(D) Which among these data compression

(H) The full form of HDMI is:

- (i) Hard Digital Multimedia Interface
- (ii) Heavy Duty Multimedia Interface
- (iii) High Definition Multimedia Interface
- (iv) High Density Multimedia Interface
- (I) In a 16-bit image, the 16 bits are divided into:
 - (i) 5 bits Blue, 6 bits Red and 5 bits Green
 - (ii) 5 bits Red, 6 bits Blue and 5 bits Green
 - (iii) 5 bits Red, 6 bits Green and 5 bits Blue
 - (iv) 4 bits Blue, 8 bits Red and 4 bits Green
- (J) The most precious asset you can bring to the multimedia workshop is your:
 - (i) Programming Skill
 - (ii) Musical Ability
 - (iii) Creativity
 - (iv) Film and video production talent

PART - B

Answer any three questions.

3. (a) What are the characteristics of multimedia

systems?

(b) Mention ten different fields or areas where multimedia can be applied?
(c) What are analog signals and digital signals ? Explain with a diagram. 4+2=6
(i) 5 bits Blue, 6 bits Red and 5 bits Green
4. (a) What are the different ways of acquiring digital images?
(b) Describe the RGB Colour System. 4
(c) Write a brief note on Ditheringand Anti- Aliasing.
5. (a) What are the differences between MIDI and
Digital Audio ?
(b) Describe the process of Splicing and Assembly.
6. (a) What are interlaced and progressive videos?
3+3=6

(b)	Describe	component	video	and	composite	
	video.	The state of the s				
					3+3=6	

- (c) What are Stereoscopic videos?
- 7. (a) Write briefly on Alpha Testing and Beta Testing.
 - (b) Describe the role of an Interface Designer.

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