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Name:	
Roll No.:	To Daniely Exercising and Excitored
Invigilator's Signature :	

CS/B.Tech (IT)/SEM-6/IT-605/2010 2010

MULTIMEDIA TECHNOLOGY & APPLICATION

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

(Multiple Choice Type Questions)

- 1. Choose the correct alternatives for the following : $10 \times 1 = 10$
 - i) PAL is a/an
 - a) Digital video standard b) Analog video standard
 - c) Audio file standard
- d) Text file standard.

- ii) Kerning is
 - a) vertical gap between two lines
 - b) smallest component of written language
 - c) horizontal gap between two characters
 - d) none of these.
- iii) Raster scanning starts from
 - a) top left corner of the screen
 - b) top right corner of the screen
 - c) bottom left corner of the screen lines
 - d) bottom right corner of the screen.

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D. 1 CC	JI (II)/ SEMI-0/11-003/2010		Utech
iv)	Synt	thesizer is a/an		A
	a)	protocol	b)	cable
	c)	instrument	d)	none of these.
v)			200	× 1600 image of 16 bi
	dept			
	a)	29·29 mb	b)	117 kb
	c)	192 kb	d)	none of these.
vi)	DCT	stands for		
	a)	Discrete Cosine Transf	forma	ation
	b)	Direct Colour Transfor	mati	on
	c)	Differential Coding Tra	nsfo	rmation
	d)	none of these.		
vii)	MID	I is a/an		
	a)	protocol	b)	instrument
	c)	cable	d)	none of these.
viii)	CD-	ROM operates on		
	a)	1 Mode	b)	2 Mode
	c)	3 Mode	d)	4 Mode.
ix)	.MO	V is used for		
	a)	Quick time movie	b)	Windows media player
	c)	MPEG	d)	none of these.
x)	RLE	stands for		
	a)	Reverse Line Encoding	;	
	b)	Run Length Encoding		
	c)	Run Line Encoding		

d)

none of these.



GROUP - B

(Short Answer Type Questions)

Answer any three of the following.

- 2. State the Nyquist sampling theorem. What is sampling? How does sampling rate effect file size? 2 + 1 + 2
- Explain the terms 'hypertext' and 'hypermedia' ? What is 3. leading? 4 + 1
- 4. What are the MIDI messages?
- 5. What is morphing? Differentiate between morphing and 2 + 3shape tweening.
- What is animation? Explain key frame and tweening. 6. 2 + 3

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

- 7. What are different image file formats? Explain Discrete Cosine Transformation. Why is DCT useful in compression? 4 + 7 + 4
- Differentiate between CAV for hard disks and CLV for 8. a) CDs. How is CD-ROM format different from the CD-DA format? What do you mean by Mode 1 and Mode 2?

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- b) What do you mean by onion skinning and masking? What is their utility in animation? 3+3+4+5
- 9. a) What do you mean by CODEC? What is the difference between intraframe and interframe compressions?
 - b) What do you mean by *I*-frame, *B*-frame and *P*-frame in the context of video compression ? Explain JPEG compression standard. 1 + 2 + 6 + 6
- 10. a) What is Multimedia Database? Describe in brief how image database is constructed.
 - b) What is the ADDIE model and where is it used? What do you mean by a script and a story and how do they differ? 2 + 5 + 4 + 4
- 11. Write short notes on any *three* of the following: 3×5
 - a) Quantization error
 - b) SGML
 - c) HTML
 - d) MIDI
 - e) Story Board.

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