

VII SEMESTER B.TECH. (PRINT AND MEDIA TECHNOLOGY)

END SEMESTER EXAMINATIONS, NOV/DEC 2016

SUBJECT: ANIMATION TECHNOLOGY [CSE 459]							
	RI	_	CREDIT SYS 28/11/2016)	STEM			
Т	ïme: 3 Hours		MAX. MARKS: 50				
Instructions to Candidates:							
	❖ Answer ANY FIV		-				
	 Missing data may l 	oe suitab	ole assumed.				
4 A	Evalois the following type	o of lig	ht aguraga uga	nd in 2 Danin	action		
IA.	Explain the following type	b. Su			nation.		
4 D	a. Lamp			c. Area			
ID.	Explain the following type a. European tradition		sian tradition	•	al modium		
10	•				ar medium		
IC.	Explain the following visu		•	•			
	a. Rotoscoping		D morphing	_			
	c. Blue and green scree	en a. Co	imputer gener	ated particles			
2.4	Evaloin the following prin	مامامه	of animation		[03 + 03 + 04]		
ZA.	Explain the following prin	-		tion.			
2D		-	c. Exaggera		iaa		
ZD.	Explain the following ima	ge com					
20	a. Image sequencing	b. Transitions between shots					
2 C.	Explain the following met	noas o	•				
	a. Z-buffer		b. Raytracing				
	c. Non photorealistic rei	ndering	d. Branched	path tracing	J		
					[03 + 03 + 04]		
3A.	Explain the following image file formats.						
	a. TIFF b. JF		c. EP		d. GIF		
3B.	Explain the following step	os used	in developing	a character i	n 3-D animation.		

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a. External shape b. Internal structure

c. Timing of character d. Facial expressions

Reg. No.						
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3C	Explain the follow	vina concents	with respect	t to 3-D r	nodelling
JU.		virig concepts	With respect	ししょしょ	nouciiing.

a. Object centre

b. Vertices, edges, faces

[04 + 04 + 02]

4A. Explain the curved lines used in 3-D modelling.

4B. Explain the following printing processes.

a. Electrostatic printing

b. Inkjet printing

4C. Explain the workflow of image mapping used in 3-D modelling.

[04 + 04 + 02]

- **5A.** Explain the particle system used for creating particles in 3-D animation along with the workflow of creating particles in 3-D animation.
- **5B.** Explain the geometric primitives used in 3-D modelling.

a. Cylinder

b. UV sphere

c. Cone

d. Grid

5C. Explain the file formats used in 3-D modelling.

[04 + 04 + 02]

6A. Explain the following early devices used of creating animation.

a. Thaumatrope

b. Zoetrope

c. Flipbook

6B. Explain the following concepts with respect to 2-D animation production process.

a. Layout

b. Animating a walk

c. Character construction

6C. Explain the following dynamic simulation techniques used in 3-D animation.

a. Motion dynamics

b. Rigid body dynamics

c. Fluid dynamics

d. Cloth simulation

[03 + 03 + 04]

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