AMT-501/DAR/5th Sem/2017/N

DIGITAL ANIMATION AND RIGGING

Full Marks - 70

Pass Marks - 28

Time - Three hours

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

PART – A

. Multip	ple cl	noice questions	:	1×5=5
(a)	is the study of movement and motion structures that have joints.			
	(i)	Cel-animation	(ii) Kinematic	s
	(iii)	Morphing	(iv) Tweaking	
(b)	What does GUI stand for ?			
	(i)	Garning User interface		
	(ii)	Geometric User Interface		
	(iii) Graphical User Interface			

(iv) Guidance User Interface

- (c) What was the name of the Thomas Edison animation viewing machine called?
 (i) Kenetoscope (ii) Kinetoscope
 (iii) Kalaedricope (iv) Zoetrope
- (d) What was the first full CG 3D animation called?
 - (i) Story toy
- (ii) Long story
- (iii) Book toy
- (iv) Toy story
- (e) Objects such as clay models and paper cut-outs are used in which type of animation
 - (i) Cel animation
 - (ii) Stop motion animation
 - (iii) Computer animation
 - (iv) Traditional animation
- 2. Answer the following questions in short:

10×2=20

- (a) What is staging?
- (b) List the twelve principles of animation.
- (c) What are the primary functions of a pose?

- (d) What are deformers?
- (e) Define the term joint, bone and joint chain.
- (f) Define Silhouette.
- (g) What is kinematics?
- (h) What is component editor?
- (i) Define the term gesture.
- (j) What is anticipation?

PART-B

- 3. Answer any three of the following questions:
 - (a) Give a comparison between traditional method of animation and computer generated animation.
 - (b) Explain the principle of squash and stretch with proper example and diagram. 10
 - (c) Explain the importance of timing in animation with appropriate example and diagram. 10
 - (d) What do you mean by inverse kinematics and forward kinematics? Explain about the IK-FK switch. 6+4=10
 - (e) What are the different methods of skinning? Explain in brief.

- 4. Answer any one of the following questions:
 - (a) Draw the appropriate poses with proper line of action for the following: 3×5=15
 - (i) Devastated
 - (ii) Strength
 - (iii) Balance
 - (b) Draw and explain the key poses of a walk cycle. 10+5=15