

Hall Ticket Number:

14IT606/C

--	--	--	--	--	--	--	--	--

III/IV B.Tech (Supplementary) DEGREE EXAMINATION

November, 2019

Sixth Semester

Time: Three Hours

Information Technology

Computer Animation

Maximum : 60 Marks

Answer Question No.1 compulsorily.

(1X12 = 12 Marks)

Answer ONE question from each unit.

(4X12=48 Marks)

1 Answer all questions

(1X12=12 Marks)

- What is the role of modelling department in Computer animation?
- Write about shape animation.
- Define Vector and Matrix.
- How Ray Casting differs from display pipeline transformations.
- Define Affine transformations.
- Write a rotation transformation matrix for rotation about y-axis.
- What are the features of animation languages?
- List the approaches to find the arc length.
- Define control Points.
- Types of Facial Models.
- Write about Double Buffering.
- What is anti aliasing.

UNIT I

- Explain the principles of Computer Animations? 6M
- How can you transforming a vector and point using Matrix Multiplication. 6M

(OR)

- List and explain the basic types of animation. 6M
- Explain Geometric computations and functional integration. 6M

UNIT II

- Explain Homogenous coordinates and transformation Matrix. 6M
- Explain Fixed Angle and Euler Angle Representation 6M

(OR)

- Write about compound transformations 6M
- Explain the description of Transformations in the Display pipeline. 6M

UNIT III

- How to calculate arc length in controlling motion along a curve? 6M
- Explain about key frame systems. 6M

(OR)

- Explain recursive subdivision approach in 3D shape interpolation. 6M
- Explain smoothing a path using linear and cubic interpolation. 6M

UNIT IV

- How can you modelling the Arm and Hand? Explain. 6M
- Discuss about various approaches to Animating the Face. 6M

(OR)

- What is motion blur in moving objects?. 6M
- Write short notes on drop shadows. 6M

