

SYBSCIT sem IV Reg & A.T.K.T. Exam March-2020

Sub :Computer Graphics

Total Marks:75 Class:SYBSCIT(SEM IV)

Duration: 2hr and 30min

Note: All the questions are compulsory.

07/3/20

(1) Answer any three of the following:

(15)

- 1.Explain Bresenham's Line Drawing Algorithm.
- 2.Applications of Computer Graphics.
- 3.Explain the working of CRT.
4. What is the effect of Aliasing .
5. Explain Cohen Sutherland Algorithm
6. Explain DDA Algorithm.

(2) Answer any three of the following:

(15)

- 1.Explain the steps of 3D Rotation Transformation at an arbitrary point.
- 2.Explain Mirroring and Shearing.
- 3.Explain Rigid body transformation.
- 4.Explain the 2D reflections.
- 5.What is the concept of window to view port transformation? Explain.
- 6.Write a short note on 3D Transformation .

(3) Answer any three of the following:

(15)

- 1.Explain the term Colorimetry.
- 2.What are the stages of 3D -Viewing?
- 3.Define:Radiometry And Radiant Energy.
- 4.Explain the term: Color Spaces, Chromatic Adaption
- 5.Write a short on RGB model.
6. Write a short on Camera model.

(4) Answer any three of the following:

(15)

- 1.What is the concept of ScanLine Explain?
2. Write a short on Area Sub Division.
3. What are the properties of Bezier Curve? Explain?
- 4.What is Curve And its types?
- 5.Explain Z-buffer Algorithm.
- 6.Differentiate between Ray Casting and Ray Tracing .

(5) Answer any three of the following:

(15)

- 1.Explain the concept of contrast stretching and histogram.
- 2.List and explain the various types of digital image formats.
- 3.What is averaging and median filtering explain?
- 4.Explain the concept of image processing.
- 5.What are the steps of JPEG Image compression? Explain.
- 6.Explain the Following Principles of animation.