

COMPUTER GRAPHICS AND IMAGE PROCESSING - 21CS63

VTUCSE21

ALL FOR 8-10 MARKS

SCORING PACAKGE

MODULE 1

- 1) Write Basics and Application of computer graphics?
- 2) Explain video displays : Raster scan display , color CRT Monitors?
- 3) Short Note On the video Controller and Display Processor May ask for brief also?
- 4) Explain Graphic Work Stations And Viewing Sysytems?
- 5) Write note on introduction To OpenGL?
- 6) What are Coordinate reference Frames?
- 7) Explain Line drawing algorithms mainly Bresenham's and DDA? (Question will be Asked Separtely both algorithm are Imp any one is asked)

MODULE 2

- 1) Explain Two dimensional translation, rotation, scaling with diagram and matrix form
- 2) Explain OpenGL raster transformations & OpenGL geometric transformations function
- 3) Explain Homogeneous Coordinates
- 4) Explain Pivot point Rotation and Scaling With Matrix from
- 5) Explain Shear and Reflection Transformation
- 6) Explain 3D Translation ,Rotation, Scaling with Diagram and Matrix Form

MODULE 3

- 1) Explain Logical Classification of Input devices
- 2) Explain Interactive Picture-Construction Techniques With Necessary Diagram
- 3) Explain OpenGL Interactive Input-Device Functions

- 4) Explain Traditional Animation Techniques**
- 5) How Animation Sequences Are designed Explain In detail.**
- 6) Discuss General Computer-Animation Functions.**

MODULE 4

- 1) What is Image Processing Also Explain Nature of Image processing with Diagram and discuss its types**
- 2) Explain How Image processing is related to other fields**
- 3) Explain Different Types of images Briefly**
- 4) Discuss How digital image representation**
- 5) Explain Classification of Image processing Operations in Detail**

MODULE 5

- 1) What is segmentation ? Explain different characteristics of segmentation?**
- 2) Explain about classification of segmentation algorithms in detail with diagram?**
- 3) Explain canny edge detection algorithm in detail?**
- 4) Explain template matching masks in detail?**
- 5) Explain in detail about different stages in edge detection with neat diagram.**
- 6) List and explain about different types of edges with diagram.**
- 7) Explain about different types of edge detectors.**