**St. Joseph’s College (Autonomous), Bangalore**

**3-06-2017**

**SPECIAL SUPPLEMENTARY EXAMINATION: MAY 2017**

**B.Sc Computer Science VI Semester**

**CS 6212: Computer Graphics**

**Time 3Hrs Max Marks 100**

**This paper contains 2 printed pages and 3 parts**

ATTACH THE QUESTION PAPER WITH THE ANSWER SCRIPT

**PART-A**

**Answer all TEN questions 3 x10 = 30**

1. Write down any two line attributes.
2. Differentiate window and view port.
3. Define Pixel and Persistence.
4. Write down the translation transformation matrix for 2D.
5. Define text clipping.
6. Define Aspect ratio.
7. Define viewing.
8. What do you mean by Region Code?
9. Write short note on area filling.
10. List the different types of 3D transformations.

**PART-B**

**Answer any FIVE questions 8 x5 = 40**

1. Explain Shadow Mask CRT method.
2. Explain DDA line drawing algorithm.
3. Explain with a suitable example rotational transformation.
4. Compare and Contrast Parallel and Perspective Projection.
5. Explain with suitable example Text clipping .
6. Explain Bresenhams circle drawing algorithm.
7. Write short notes on any two input devices with a suitable diagram.

**PART-C**

**Answer any THREE questions 10 x3 = 30**

1. Explain all the components of CRT with a neat diagram.
2. Explain any two display processor in detail.
3. Explain output devices in detail.
4. What is Clipping? Explain any two types of Clipping.
5. Explain Cohen-Sutherland line clipping algorithm with an example.