

**PSG COLLEGE OF ARTS & SCIENCE**  
(AUTONOMOUS)

**MSc DEGREE EXAMINATION DECEMBER 2018**  
(Fifth Semester)

Branch **SOFTWARE SYSTEMS**  
(Five year integrated)

**GRAPHICS & MULTIMEDIA SYSTEMS**

Time: Three Hours

Maximum: 75 Marks

**SECTION -A (30 Marks)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** Marks (5 x 6 = 30)

- 1 a Write short notes on DVST display.  
OR  
b Explain about Beam - Penetration CRT.
- 2 a Describe simple DDA algorithm for generating straight line.  
OR  
b Distinguish between Tracker ball and mouse.
- 3 a Write a note on basic two dimensional transformation.  
OR  
b Briefly explain the concept of line clipping.
- 4 a What are the techniques used in unambiguous selection to help the user?  
OR  
b Write notes on perspective depth and perspective transformation.
- 5 a Write short notes on use of multimedia in business.  
OR  
b What is the use of OCR software? Explain.

**SECTION -B (45 Marks)**

Answer any **THREE** questions

**ALL** questions carry **EQUAL** Marks (3 x 15 = 45)

- 6 Explain the construction and working of refresh cathode ray tubes with neat diagram.
- 7 Explain in detail about the three dimensional input devices.
- 8 Discuss in detail about Cohen = Sutherland line clipping algorithm.
- 9 Briefly explain the three — dimensional transformations.
- 10 Elaborate notes on painting and drawing tools for multimedia making.