

**PSG COLLEGE OF ARTS & SCIENCE**  
(AUTONOMOUS)  
**MSc DEGREE EXAMINATION MAY 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 a note on Inherent Memory devices.  
OR  
b Describe the features of Refresh Line drawing display.
- 2 a Give a note on pointing and positioning devices.  
OR  
b Explain simple DDA algorithm.
- 3 a Write and explain line clipping algorithm.  
OR  
b Brief a note on matrix representations of 2D transformations.
- 4 a Expand and explain OCR.  
OR  
b Discuss the various types of Input functions.
- 5 a Explain the various sound editing tools.  
OR  
b Discuss about Painting and Drawing Tools.

**SECTION -B (45 Marks)**

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

- 6 'CRT' – Discuss.
- 7 How to draw a line using Bresenham's line drawing algorithm? Explain.
- 8 i) Briefly explain the 2D transformations and its principle. (8)  
ii) Write a note on polygon clipping. (7)
- 9 Discuss about 3D transformations.
- 10 Give a short note on video and digital movie tools.