ST. JOSEPH'S EVENING COLLEGE (AUTONOMOUS)

IV SEMESTER BCA EXAMINATIONS - APRIL 2019

COMPUTER GRAPHICS

Duration: 2.5 Hours Max. Marks: 70

SECTION - A

I) Answer any SIX of the following questions.

(6x3=18)

- 1. Define Computer Graphics. List any 2 applications.
- 2. Differentiate between LCD and Plasma Display.
- 3. Define Aspect Ratio, electron gun.
- 4. What are the various attributes of Output Primitives?
- 5. Define Scaling. Write the matrics representation of 2D scaling.
- 6. What do you mean by 2D line clipping?
- 7. Define 3D Rotation.
- 8. Discuss about lightpen and joystick.

SECTION - B

II) Answer any FOUR of the following questions.

(4x8=32)

- 9. Explain the working of CRT with a neat diagram.
- 10. What are the various graphic input devices? Explain in detail.
- 11. Discuss in detail about Bresenhams line drawing algorithm.
- 12. Explain the concept of Octree in detail.
- 13. Discuss in detail about Scan Line Method.
- 14. Explain a) Color Model b) Depth Buffer Method

SECTION - C

III) Answer any TWO of the following questions.

(2x10=20)

- 15. What is the difference between window and view port? Give steps to transform objects from window to view port.
- 16. Define Clipping. Explain Cohen-Southerland line clipping algorithm in detail.
- 17. What is Projection? Differentiate between Parallel and Perspective Projection.