



SS – 773

V Semester B.Voc. (IT) Degree Examination, November/December 2018
(CBCS) (Fresh – 2018 – 19 & Onwards)
504 : COMPUTER GRAPHICS AND VISUALIZATION

Time : 3 Hours

Max. Marks : 70

Instruction : Answer all Sections.

SECTION – A

I. Answer **any ten** of the following : (10×2=20)

- 1) Define Computer Graphics.
- 2) What do you mean by staircase effect ?
- 3) What is Translation ?
- 4) What is pixel ?
- 5) Explain shear transformation.
- 6) Write DDA circle drawing algorithm.
- 7) What are the line attributes ?
- 8) What are the applications of CG ?
- 9) Mention the different types of clipping.
- 10) What is parallel projection ?
- 11) Explain frame buffer in graphics system.
- 12) What is Rigid body transformation ?

SECTION – B

II. Answer **any five full** questions : (5×10=50)

- 13) With a neat diagram, explain the working of CRT. 10
- 14) Explain :
 - a) DDA line drawing algorithm. 5
 - b) Area fill attributes. 5

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- 15) Explain :
 - a) RGB model 5
 - b) Raster scan system. 5
- 16) a) Explain window to view port transformation with an example. 5
- b) Explain curve clipping. 5
- 17) Explain 2D translation, rotation and scaling of composite transformation. 10
- 18) Write a note on :
 - a) Back-face technique for hidden line removal. 5
 - b) Bezier curves. 5
- 19) a) Explain perspective projection with an example. 5
- b) Explain 3D scaling and rotation. 5
