

## V Semester B.A./B.Sc. Examination, November/December 2018 (Repeaters (2015-16 only)) COMPUTER SCIENCE - V Computer Graphics

Max. Marks: 70 Time: 3 Hours

Instruction: Answer all Parts.

Answer any ten questions. Each question carries two marks.

(2×10=20)

- 2. What is colour lookup table ?
- 3. Define aspect ratio.
- 4. Name few different types of image files.
- 5. Give the difference between window and viewport.
- 6. What is meant by Anti-Aliasing?
- 7. Define Reflection transformation.
- Name any two methods used to display color images on CRT.
- 9. Define exterior clipping.
- 10. What is meant by composite transformation?
- 11. List out various text attributes.
- 12. Define depth-cueing.

## PART - B

An	swer all the questions. (10×5	=50
13.	Explain the working of CRT with a neat diagram.  OR	10
	With an algorithm explain DDA line drawing and manually simulate it for points A(0, 0) B(10, 8).	16
14.	Write an algorithm for mid point circle drawing.  OR	10
	Explain Cohen Sutherland line clipping algorithm using region codes. Give an illustration.	10
15.	Explain the 2D transformations in detail.  OR	10
	Explain general pivot point rotation of a 2D object with an example.	10
16.	With supportive matrix and diagrams, explain 3D transformations.  OR	10
	Discuss various 3D viewing techniques.	10
17.	Explain Bezier curves and surfaces.  OR	10
	Explain Back-face removal and z-Buffer algorithm for hidden surface elimination.	10

THO no expensively stoods to bear abortion out yes emply