UG 5th Semester Examination 2021
COMPUTER SCIENCE (Honours)
Paper Code : DC-12
Computer Graphics
[CBCS]

Full Marks: 25   **Time: 2 Hours**

The figures in the margin indicate full marks.

Group -A $(2 \times 5=10)$

Answer any five questions.

1. (a) Explain Aspect Ratio with suitable example.

   (b) What is Translation?

   (c) Name the primary colours of the CMY colour model.

   (d) What is aliasing?

   (e) Define Projection.

   (f) Compute the resolution of a 4 X 4 inch image that has 512 X 512 pixels.

Group -B $(5 \times 3=15)$

Answer any three questions.

2. Discuss Bresenham's circle drawing Algorithm.   5

3. (a) Perform a 45º rotation of triangle A(0,0), B(2,1), C(5,2) about P(-2,-2).

   (b) A monitor can display 4 shades of red, 8 shades of blue and 16 shades of green. Find out the colour depth supported by the monitor.   (3+2)=5

4. Discuss DDA Line Drawing Algorithm.   5

5. Write a short note (any one):   5

   (a) Cohen-Sutherland Algorithm

   (b) Boundary-fill algorithm