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***B.Tech. Degree V Semester Supplementary Examination
November 2021***

**CS 15-1506 COMPUTER GRAPHICS
(2015 Scheme)**

Time: 3 Hours

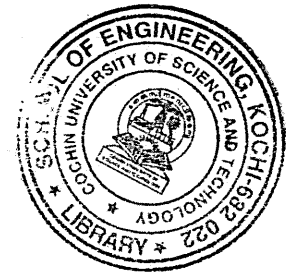
Maximum Marks: 60

PART A

(Answer *ALL* questions)

(10 × 2 = 20)

- I. (a) Explain parametric forms of circle and ellipse.
(b) Explain Antialiasing.
(c) Explain the basic two dimensional transformations.
(d) Explain midpoint subdivision clipping.
(e) Prove that successive translations are additive.
(f) Explain Sutherland Hodgman polygon clipping.
(g) Explain back face detection.
(h) Briefly explain a Buffer algorithm.
(i) Explain constant intensity shading.
(j) Write a short note on RGB color system.



PART B

(4 × 10 = 40)

- II. Discuss the logical classification of input devices.
OR
III. Explain dda line drawing algorithm. Generate the intermediate points for the line whose end points are (10, 10) and (20, 18).
OR
IV. Explain two dimensional viewing pipe line.
OR
V. Explain boundary fill algorithm and flood fill algorithm.
OR
VI. Explain Warnocks algorithm.
OR
VII. Compare image space and object space approach. Explain painters algorithm.
OR
VIII. Explain Gouraud shading and Phong Shading.
OR
IX. Explain the steps involved in designing an animation sequence. Explain how the motions of objects can be specified in an animation system.
