

616450

263(BN)

**B.Sc. (Sixth Semester) End Semester
Examination, 2024-25
COMPUTER SCIENCE
(Computer Graphics)
SET-I**

Time : Two Hours]

[Maximum Marks : 70

Note : Attempt any *five* questions from Section A and *three* from Section B.

(Section-A)

Note : Attempt any *five* questions. Each question carries 5 marks

1. State the difference between CMY and HSV color models.
2. Which shading method is faster and easier to calculate? Why?
3. Differentiate window and viewport.
4. Distinguish the parallel projection and Perspective Projection view volumes.
5. Discuss various types of text clippings?

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[P.T.O.]

6. State the properties of B spline approximations.
7. What do you understand by computer graphics? Explain the use of computer graphics.

(Section-B)

Note : Attempt any *three* questions. Each question carries 15 marks.

1. Briefly explain the raster scan and random scan display system.
 2. Explain the Cohen-Sutherland Line Clipping in detail with suitable example.
 3. Describe in detail about 3D Transformation Functions. Also Explain Modeling Coordinate Transformation.
 4. What are DDA and Explain DDA Line Drawing Algorithm?
 5. What is the use of Animation? Explain the different types of animation?
 6. Write Short notes on the following :
 - (a) Z-buffer algorithm.
 - (b) Vanishing points.
 - (c) Ellipse drawing algorithms.
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