

Seat No. **OCT-NOV 2025 WINTER EXAMINATION****1154 B.Tech. CBCS****Sub. Name: Advanced Computer Graphics****Sub. Code: 86169****Day and Date: Tuesday ,09-12-2025****Total Marks: 70****Time: 10:30 AM To 01:00 PM**

**Instructions:** 1. Assume suitable data wherever necessary and mention it boldly  
2. Draw neat labelled diagrams wherever necessary

**Special Inst.:** Solve any four questions from Q. No. 1 to Q. No. 5  
Question no. 6 is compulsory

- Q1)** Answer the following questions [15]
- a. Explain Edge fill in detail [8]
- b. Explain Shearing in detail [7]
- Q2)** Answer the following questions [15]
- a. Translate the polygon with co-ordinates A(3, 6), B(8, 11), & C(11, 3) by 2 units in X direction and 3 units in Y direction [8]
- b. Difference between key frame animation and Procedural animation [7]
- Q3)** Answer the following questions [15]
- a. Explain the line clipping algorithm with an example [8]
- b. Explain Translation in detail [7]
- Q4)** Answer the following questions [15]
- a. Use the Cohen-Sutherland algorithm to clip line P1(40, 15) – P2(75, 45) against a window A(50, 10), B(80, 10), C(80, 40), D(50, 40) [8]
- b. Explain the seed fill algorithm in detail [7]
- Q5)** Answer the following questions [15]
- a. Difference between key frame animation and Procedural animation [8]
- b. Orthographic Projection in detail [7]
- Q6)** Write a short note on: (Any 2) [10]

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|-----------|--------------------|------------|
| <b>a.</b> | Warnock algorithm  | <b>[5]</b> |
| <b>b.</b> | Warping techniques | <b>[5]</b> |
| <b>c.</b> | Bezier curves      | <b>[5]</b> |

## **End Of Question Paper**

**Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -**

This Question Paper may be distributed for following Subjects as common code.

सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

- 1] (1154) B.Tech. CBCS (86169) Advanced Computer Graphics Part 2 SEM 4