



Daffodil International University

Department of CSE

Faculty of Science & Information Technology

Final Examination

Semester: Fall 2019

Course Code: CSE 421 (Day)

Course Title: Computer Graphics

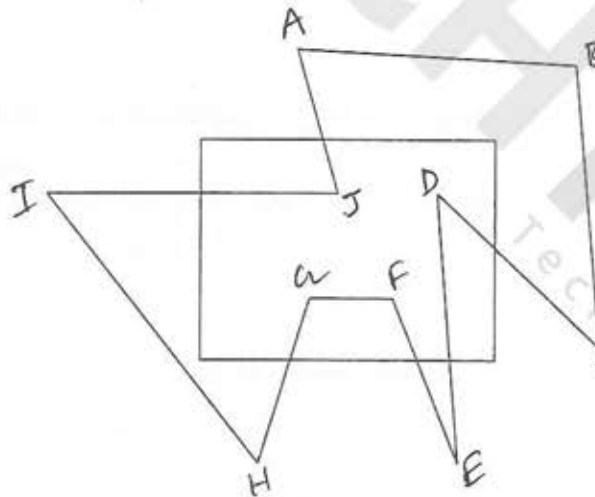
Time: 2 hours

Full Marks: 40

Answer ALL Questions

1. In 3D model, A triangle has three coordinate such as (7,-12,40) (15,20,50) (12,30,60). What will be the coordinates of the triangle if it is
- i. Shear about (-2) factor along z axis 3
 - ii. Translated about (3,5,-4) factor 2
 - ii. Rotate 65° along y axis. 3

2. Apply Sutherland-Hodgeman clipping algorithm on the following polygon ABCDEFGHIJ. 8



- 3 a. Describe different types of parallel projection. 4
- b. Define Bezier Curve with properties. Write the different types of Bezier Curve. 4

4. PQRS is the clipping window. Find the categories of lines in figure 1. Perform clipping using Cohen-Sutherland algorithm.

8

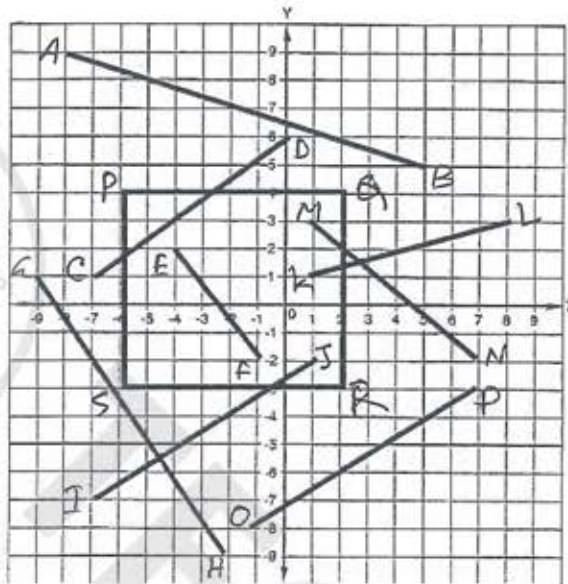


Figure 1

5. a. How much intensity in an $n \times n$ cluster? Draw all intensity level of 3×3 cluster. 5
- b. Which color model is better for newspaper? Differentiate this color model with another color model. 3