BRAC UNIVERSITY

Department of Computer Science and Engineering

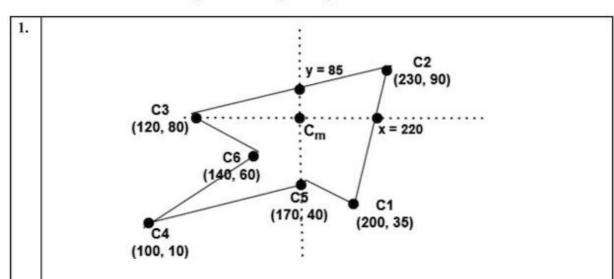
Quiz 03 Semester: Spring 2025 Duration: 35 minutes

Full Marks: 20

CSE 423: Computer Graphics

Name: ID: Section:

> Answer all the following questions. Figures in the right margin indicate marks.



CMY values at C1 = (0.2, 0.35, 0.4); C2 = (0.7, 0.7, 0.7); C3 = (0.25, 0.55, 0.45); The color at C4, C5 and C6 is white.

Using Gouraud's shading, find the color at Cm. Convert it to the HSV color model. [10]

A square mirror surface lies on the xz plane. A light source situated at (1,1,4) with intensity 10, illuminates the center of the mirror where the vertices are (2,5),(12,5),(2,15) and (12,15). The viewer is standing at (3,2,6) and the shininess factor of the mirror is 5. The ambient, diffuse and specular coefficients are 0.5 each.

Find the diffuse and specular components using Phong's reflection model. [10]