

BRAC UNIVERSITY

Department of Computer Science and Engineering

Quiz 03
Duration: 35 minutes

Semester: Spring 2025
Full Marks: 20

CSE 423: Computer Graphics

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| Name: | ID: | Section: |
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Answer **all** the following questions.
Figures in the right margin indicate marks.

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| 1. | <p>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 C_m. Convert it to the HSV color model. [10]</p> |
| 2. | <p>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]</p> |