

BRAC University (Department of Computer Science and Engineering)

CSE 423 (Computer Graphics)

Quiz 3

Student ID:

Full Marks: 20

Name:

Duration: 20 minutes

[No extra sheet will be provided. Write your answer to the questions in this answer script.]

[Marks allocated to each question is given in the statement of corresponding question.]

1. Given three components of the **CMY** color model as **(0.3, 0.2, 0.4)**. Convert it to the appropriate component of the **HSV** color model. [10]
2. A light source with intensity **15** and radius of influence **90** is located at **(0,0,0)** from which you are called to calculate the illumination of a point of very rough surface on the **xy** plane. The diffuse coefficient is given at **0.7**. Calculate the illumination of a point **(60, 6, 6)** for the given light source on the given plane with necessary attenuation. [10]