2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

(08 Marks)

(06 Marks)

ii) CMY color model.

Explain the following color models:

Explain the basic illumination models.

i) RGB color model

7 a. What is three dimensional viewing? Explain three dimensional viewing pipeline with neat diagram.

(08 Marks)

b. Explain OpenGL three dimensional viewing functions, with example for each:

i) gluLookAt

ii) glOrtho

iii) glPerspective

iv) glFrustum.

(12 Marks)

OR

8 a. Explain classification of visible surface detection and back face detection algorithm.

b. Explain Z-buffer or depth buffer algorithm for visible surface detection. (08 Marks)
(06 Marks)

c. Discuss OpenGL visibility-detection functions with an example. (06 Marks)

Module-5

- 9 a. List and explain the various classes of logical input devices that are supported by OpenGL.
 With suitable diagrams, explain various input modes (10 Marks)
 - b. Explain how keyboard, window and mouse events are recognized by GLUT. Give suitable example.

 (10 Marks)

OR

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10 a. How pop-up menus are created using GLUT? Illustrate with an example. (06 Marks)

b. What are the features of a good interactive program? What are the advantages of double buffering? Explain. (08 Marks)

c. Explain Bezier cubic curves. Give the properties of Bezier curves. (06 Marks)

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