



**Term Evaluation (Even) Semester Examination March 2025**

Roll no.....

Name of the Course: Diploma CSE

Semester: VI

Name of the Paper: Computer Graphics

Paper Code: DTCS-606

Time: 1.5 hours

**Maximum Marks: 50**

Note:

- (i) Answer all the questions by choosing any one of the sub-questions
- (ii) Each question carries 10 marks.

Q1.

(10 Marks)

- a. What is computer graphics? Explain the role of the applications of computer graphics in any three domains.

OR

- b. What are the advantages and disadvantages of CRT display and how does the refresh rate affect performance and experience?

Q2.

(10 Marks)

- a. Explain the working principle of shadow mask technique in color CRT Display with the help of diagram.

OR

- b. Explain the working principle of beam penetration technique in color CRT Display with the help of diagram.

Q3.

(10 Marks)

- a. What are the advantages of LCD Display and how does it work? What are the differences between LCD and Plasma Display?

OR

- b. What is a vector in computer graphics? Explain the different types of vectors?

Q4.

(10 Marks)

- a. What are the applications of vectors in computer graphics. How do you calculate cross product and dot product? Give example for each.

OR

- b. Explain any three applications of vector product in computer graphics.

Q5.

(10 Marks)

- a. How do you calculate scalar product of two vectors in 3D space? Show with example.

OR

- b. How do you calculate vector product of two vectors in 3D space? Show with example.