



Term Evaluation (Even) Semester Examination March 2025

Roll no. 2292116

Name of the Course and semester: BCA 6th

Name of the Paper: Computer Graphics

Paper Code: TBC601

Time: 1.5 hour

Maximum Marks: 50

Note:

- (i) Answer all the questions by choosing any one of the sub questions
- (ii) Each question carries 10 marks.
- (iii) Please specify COs against each question.

Q1. (10 Marks)

- a. Describe different types of curves and shapes for parametric equations of lines and conics in computer graphics? (CO2)
OR
- b. Explain the display devices where two and more than two electron guns are there with suitable diagram. (CO1)

Q2. (10 Marks)

- a. Explain the raster and vector scan display with suitable diagram. (CO2)
OR
- b. Evaluate the performance of different technique used in computer graphics to remove the aliasing effect. (CO1)

Q3. (10 Marks)

- a. Differentiate between dithering and halftoning in computer graphics. (CO1)
OR
- b. If vector $|A+B| = |A-B|$ find out the angle between A and B vectors. When the angles between two vectors are perpendicular, same direction and opposite direction? (CO4)

Q4. (10 Marks)

- a. How dot and cross product between two vector U and V are calculated. Explain with suitable example. (CO4)
OR
- b. How to perform the K scalar multiplication in given vector $Ai+Bj+Ck$? Explain with suitable example. If two vectors are given as $2i+3j+4k$ and $3i+j+3k$ then find out the addition and subtraction? (CO4)

Q5. (10 Marks)

- a. Explain cathode ray tube components with diagram. Explain persistent rate and aspect ratio. (CO1)
OR
- b. Explain the layer's functionality of liquid crystal display, how LCD is different from LED explain? (CO2)