BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)
B. Tech. Sem - IV Computer Science & Engineering : WINTER : 2023
SUBJECT : COMPUTER GRAPHICS & MULTIMEDIA

Day : Wednesday
Date : 22-11-2023

W-25583-2023

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B.

1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.

Q.1 Explain CRT with diagram. Also distinguish between raster scan display system and random scan display system **(10)**

OR

Q.1 Explain DDA line drawing algorithm with its drawbacks. Rasterize line for (5, 7) to (10, 15) on raster screen using DDA line drawing algorithm. **(10)**

Q.2 Explain Cohen – Sutherland line clipping algorithm with example **(10)**

OR

Q.2 Describe basic 2 D transformation with homogeneous matrix. Rotate point A (2, 4) in 2 D plane by angle 90^0 . **(10)**

Q.3 Explain parallel projection and perspective projection in detail. **(10)**

OR

Q.3 Write note on Bezier curve. **(10)**

Q.4 Explain diffuse illumination with lambert's model. **(10)**

OR

Q.4 Explain Halftone pattern in detail. **(10)**

Q.5 Explain in detail applications of multimedia. **(10)**

OR

Q.5 Explain different image file format. **(10)**

Q.6 Illustrate distributed multimedia system. Explain the various types of database replication techniques used in handling very large, distributed database. **(10)**

OR

Q.6 Explain Hypermedia document and fuzzy logic. **(10)**

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