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DECA506

Reg. No.

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**V Semester B.C.A. Degree Examination, December/January - 2025/26****COMPUTER APPLICATION****Computer Graphics****(NEP Scheme Freshers and Repeaters)****Time : 2½ Hours****Maximum Marks : 60****Instructions to Candidates:****Answer All the Sections.****SECTION - A****I. Answer any Four questions. Each question carries 2 marks.****(4×2=8)**

1. Define computer graphics.
2. What is resolution?
3. Define 2D transformation.
4. Define Octrees.
5. What are the steps involved in 3D transformation?
6. How does a graphic table work?

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**SECTION - B****II. Answer any Four questions. Each question carries 5 marks.****(4×5=20)**

7. Explain Raster scan display with neat diagram.
8. Explain Bresenham's line drawing algorithm.
9. Explain Reflection and shear.
10. What is clipping? Explain line and text clipping with an example.
11. Explain parallel projection and perspective projection.
12. Explain any three interactive picture construction techniques.

**[P.T.O.]**



(2)  
SECTION - C

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**III. Answer any Four questions. Each question carries 8 marks.**

**(4×8=32)**

13. Explain midpoint circle algorithm with example.

14. Explain CRT with neat diagram.

15. Explain viewing transformation.

16. Explain 3D translation and 3D rotation.

17. Explain pointing and selection.

18. Write a note on:

a) Touchpad

(4)

b) Mouse.

(4)

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