



C09-IT-606 A

3778

BOARD DIPLOMA EXAMINATION, (C-09)
OCT/NOV—2015
DIT—SIXTH SEMESTER EXAMINATION
COMPUTER GRAPHICS

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. What are display file and interpreter?
2. What is a polygon? List various types polygons.
3. Write about SIN and COS scaling transformations.
4. What is a shear transformation?
5. Write the procedure for deleting a segment.
6. What is a segment? List various components of segment table.
7. What is meant by windowing and clipping?

- * 8. Write about multiple windowing.
- 9. Write about 3D primitives.
- 10. Define interaction and list various hardware devices used in interaction.

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11. Explain Brenham's algorithm.
- 12. Explain the procedure for filling a polygon with algorithm.
- 13. Explain homogenous coordinates and translation.
- 14. Explain about other display file structures.
- 15. Explain about the Cohen-Surtherland outer code algorithm with example.
- 16. (a) What is meant by viewing transformation? Explain.
(b) Explain the procedure for adding clipping to the system.
- 17. (a) Explain 3D transformation.
(b) Write about parallel projection.
- 18. Explain rotation about an arbitrary axis.
