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BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL-2014

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. Write about graphics primitive operations.
- **2.** List the applications of polygon.
- **3.** Define transformation.
- 4. Write about shear and inverse transformation.
- 5. Write about various segments available in a segment table.
- **6.** Write the procedure for renaming a segment.
- 7. Define windowing and clipping.

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- 8. Write about multiple windowing.
- 9. List the hardware devices used in the interaction.
- 10. Write briefly about parallel projection.

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 Bresenham's algorithm with an example.
- **12.** Define polygon and explain how to fill polygons with algorithm.
- **13.** Explain the rotation about an arbitrary point.
- **14.** (a) Explain closing a segment algorithm.
 - (b) Explain deleting a segment algorithm.
- **15.** Explain viewing transformation implementation.
- 16. Explain Sutherland–Hodgman algorithm.
- **17.** Explain 3D transformation.
- **18.** (a) Explain interaction 3D geometry.
 - (b) Explain 3D primitives.

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