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C14–IT–602

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BOARD DIPLOMA EXAMINATION, (C–14)

OCT/NOV—2017

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. List the various primitive operations.

2. List the applications of polygons.

3. Define transformations.

4. Write briefly about rotation about an arbitrary point.

5. Write the need for segment table.

6. Define visibility.

7. Write briefly about clipping.

8. Write briefly about multiple windowing.

9. Define interaction.

10. Write briefly about 3D transformation.

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 about display devices.

12. Explain Bresenham's algorithm.

13. Explain about shear transformations.

14. Explain how to create and close a segment.

15. Explain about viewing transformation.

16. Explain Sutherland-Hodgman algorithm.

17. Explain 3D geometry.

18. Explain about parallel projection.

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