C14–IT–**602**

4755

BOARD DIPLOMA EXAMINATION, (C–14)
MARCH/APRIL—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. Write a short note on primitive operations.

2. Define polygon. List different representations of polygons.

3. Write a short note on homogeneous coordinates.

4. Write a short note on display procedures.

5. Write a short note on renaming a segment.

6. Write a short note on visibility.

7. Write a short note on multiple windowing.

* 8. Write a short note on adding of clipping to system.

9. Define interaction

10. Write a short note on 3D primitives.

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. *(a)* Explain vector refresher.

(b) Write the applications of polygons.

12. Explain polygon interfacing algorithm.

13. Explain about scaling transformation on SIN and COS.

14. *(a)* Define segment.

(b) Write how to create segment.

(c) Write about how to delete a segment.

15. Explain Sutherland-Hodgman Algorithm with an example.

16. Explain in detail about viewing transformation implementations.

17. Explain about parallel projection.

* 18. Explain 3D geometry.

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