C14-IT-**602**

4755

BOARD DIPLOMA EXAMINATION, (C-14)

JUNE-2019

DIT - SIXTH SEMESTER EXAMINATION

COMPUTER GRAPHICS

Time: 3 Hours] [Max. Marks : 80

PART -A

10X3=30M

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

1) List various display devices.

2) What is display file interpreter?

3) Write the steps involved in rotation about an arbitrary point.

4) Write about shear transformation.

5) What is the need for segment?

6) What are the advantages and disadvantages of using array structure as display file structure?

7) What is viewport?

8) How to add a clipping to the system?

9) Draw Right- handed and Left-handed coordinate system in 3D.

10) What are the primitive operations in 3D graphics system?

PART-B

5X10=50M

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

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

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

11) Explain even-odd method with an example. (10M)

12) Explain the following: (a) Raster display system (5M)

(b) Direct view storage system. (5m)

13) Obtain general matrix from for rotational transformation. (10M)

14) Explain briefly about creating a segment table. (10M)

15) Explain briefly about cohen-sutherland outcode algorithm. (10M)

16) Obtain general matrix form for viewing transformation. (10M)

17) Explain about parallel projection. (10M)

18) Obtain homogenous coordinate matrix for Translation in 3D. (10M)

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