



K18U 1452

Reg. No. :

Name :

V Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.)
Examination, November 2018
(2014 Admn. Onwards)
CORE COURSE IN COMPUTER SCIENCE (Elective)
5B12CSC (E02) : Computer Graphics

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. One word Answer.

(0.5×8=4)

- The operation of video monitors based on _____
- _____ provides six degrees of freedom.
- Character impact printers have _____ print head containing rectangular array of protruding wire pins.
- A window coordinate area selected for display is called _____
- _____ is the mirror image of original object.
- Shearing is also termed as _____
- The transformation of the plane T1 is followed by a second plane transformation T2, the composition transformation is _____
- _____ makes 45° angle with the projection plane.

SECTION – B

Write short notes on any seven of the following questions.

(7×2=14)

- Describe the three input devices.
- What is main function of graphics software ?
- Define hard copy device.
- Why electro thermal method used in dot matrix ?
- Give example of boundary fill algorithm.

P.T.O.



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7. Write short note on reflection in 2D Transformations.
8. How to generate a general form of matrix for representing transformation ?
9. What are the steps performing composite transformation ?
10. What is line clipping ?
11. Explain in detail rotation in 3D transformation.

SECTION - C

Answer **any four** of the following questions.

(4×3=12)

12. Write an algorithm of midpoint circle algorithm.
13. Explain in detail gray scale levels.
14. What you mean by text clipping ?
15. What is the use of shear in 3D transformation ?
16. What is the purpose of flood fill technique ?
17. What are the disadvantages of cohen Sutherland algorithm ?

SECTION - D

Write an essay on **any two** of the following questions.

(2×5=10)

18. Explain in detail output devices and its uses.
19. Discuss about area filling algorithm.
20. Write briefly types of output primitives.
21. Explain :
 - i) Parallel projection
 - ii) Perspective projection.