



Reg. No. :

Name :



0054080

K19U 2226

V Semester B.Sc. Degree (CBCSS-Reg./Sup./Imp.)
Examination, November- 2019
(2014 Admn. Onwards)

CORE COURSE IN COMPUTER SCIENCE (ELECTIVE)

5B12 CSC-E02 : COMPUTER GRAPHICS

Time : 3 Hours

Max. Marks : 40

SECTION - A

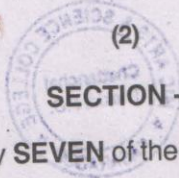
1. One Word Answer

(8×0.5=4)

- a) _____ is a ball that can be rotated with the fingers or palm of hand.
- b) A device for drawing, painting, selecting coordinates positions on an object is _____
- c) _____ is the process of removing lines or portions of lines outside an area of interest.
- d) Which method is used to resizing of the digital image.
- e) The operation that maps a perspective view of an object in world coordinates into a physical device's display space is _____
- f) _____ method use heat in a dot matrix print head to output patterns on head sensitive paper.
- g) _____ is a group of processes common from wireframe display through to near photo-realistic image generation.
- h) _____ moves an object to a different position on the screen.

P.T.O.

K19U 2226



SECTION - B

Write short notes on any **SEVEN** of the following questions. **(7×2=14)**

2. What are the components of Cathode Ray Tube?
3. What is the main function of keyboard?
4. Define dot matrix?
5. Explain the classification of graphics software.
6. Explain in detail line drawing algorithm?
7. Explain the properties of circles?
8. Write short note on flood fill algorithm?
9. What are the basic transformations of two dimensional objects?
10. What is point clipping?
11. Define polygon mesh?

SECTION - C

Answer any **Four** of the following questions. **(4×3=12)**

12. How to derive the Midpoint circle Algorithm?
13. How to use color look up table for accessing pixel from buffer?
14. What are the functions of cohen Sutherland algorithm?
15. Explain the various functions for creating and manipulating pictures in graphics?
16. Write short note on perspective projection?
17. What are the two categories of three dimensional object representations? Explain it?



(3)

K19U 2226

SECTION - D

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

(2×5=10)

18. Explain in detail any four input devices?
 19. Explain the terms scaling, rotation, translation, shear in three dimensional transformations.
 20. Briefly explain
 - a) Text Clipping
 - b) Line Clipping
 21. Explain in detail three dimensional display methods?
-