

ACTIVITY CODE:1903041021

(B.Sc.) 6th Semester (Honours) Examination, October 2020

Subject: Computer Science

Course ID: 61512

Course Code: SH/CSC/602/C-14

Course Title: COMPUTER GRAPHICS

Full Marks: 15

Time: 1 Hr.

The figures in the margin indicate full marks

Answer all the questions.

UNIT I

1. Answer *any Five* of the following questions: (1 x 5 = 5)

- a) Define Computer Graphics.
- b) Define Raster Scan displays.
- c) What is shear transformation in 2D graphics?
- d) What is the role of electron gun in a CRT monitor?
- e) What is transformation?
- f) What is scaling?
- g) Define clipping
- h) What is fixed point scaling?
- i) What do you mean by emissive display?
- j) What is persistence?



UNIT II

2. Answer *any five* of the following questions: (2 x 5 = 10)

- a) What are the advantages of laser printers?
- b) Write down the flood fill algorithm.
- c) What are the different ways of specifying spline curve?
- d) What are the steps involved in 2D transformation?
- e) What are the different types of parallel projection?
- f) Write the differences between Shadow mask CRT and beam penetrating CRT.
- g) Define resolution.
- h) Define aspect ratio
- i) What is bitmap and what is pixmap?
- j) Define coherence properties.

