

## SEM-243

### B. Sc. (Hon's) (Sixth Semester) Examination, June 2021

#### COMPUTER SCIENCE

*Paper : B. Sc. SH-602*

**(Computer Graphics)**

*Time Allowed : Three hours*

*Maximum Marks : 85*

*Note: Attempt all questions. All question carries equal marks.*

1. Explain circle generating algorithms. Draw a circle with radius 25 and center 25, 25 using circle algorithm.
2. In 2 D transformation describe the following :
  - (i) Viewing
  - (ii) Viewing pipeline
  - (iii) Window-to-viewport Coordinate transformation
3. In 3 D transformationi describe the following :
  - (i) Viewing Coordinates
  - (ii) Projections
  - (iii) Clipping
4. (a) Write short notes on RGB Colour model and YIQ Colour model.  
(b) Explain Colour Selection.
5. (a) What do you mean by animation graphics? Explain design of animation sequences and their functions.  
(b) What is the use of Grammar based models in animation? Explain.