

S.B. Roll No.....

COMPUTER GRAPHICS
6th Exam/Comp/IT/CSc/6217/6862/Nov' 2016

Duration: 3 Hrs.

M. Marks : 75

SECTION A

Q1. Do as directed

10x1.5=15

- (i) The process of scaling changes the _____ of an object.
- (ii) Pixel is the smallest _____ point on the screen.
- (iii) CSG stands for _____.
- (iv) A rectangular area specified in world co-ordinates is called a _____.
- (v) The process of cutting away the image at the windows boundaries is called _____.
- (vi) _____ are non linear transforms.
- (vii) _____ is an image space algorithm
- (viii) DDA stands for _____.
- (ix) A depth buffer algorithm is not an object space hidden surface removal algorithm. (T/F)
- (x) Aspect ratio gives the ratio of vertical points to horizontal points. (T/F)

SECTION - B

Q2. Attempt any six questions

6x5=30

- (i) What is clipping explain its types.
- (ii) Explain various types of display devices used in computer graphics.
- (iii) Differentiate between Raster scan system and random scan system.
- (iv) Write applications of computer graphics.
- (v) What are the side effects of scan conversion?
- (vi) Explain Z buffer algorithm.
- (vii) What is vanishing point?
- (viii) Write a note on flood fill and boundary fill algorithm.
- (ix) What is blanking?

SECTION – C

Note: Attempt any three questions

3x10=30

- Q3. What is transformation? Explain translation and rotation along with their matrix representation in 2D.
- Q4. Explain Cohen Sutherland Line Clipping algorithm.
- Q5. Explain parallel and perspective projections.
- Q6. What is DDA algorithm? Explain its steps.
- Q7. Write a short note on :
 - (i) Wire frame model
 - (ii) Window to view port transformation