



DG-1735

M. Sc. (I.T. & I.C.T.) (Sem. V) (Programme) Examination
March / April - 2016
Computer Graphics

Time : 3 Hours]

[Total Marks : 70

Instruction :

नीचे दृशावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B. SC. (I.T.) (SEM. V)

Name of the Subject :
COMPUTER GRAPHICS

Subject Code No. : 1 7 3 5 Section No. (1, 2,.....): Nil

Seat No. :

Student's Signature

1: : Answer following questions in brief: [14]

1. Differentiate concave & convex polygon.
2. Define anti-aliasing.
3. Give name & structure of various image file.
4. How to get reflection from origin?
5. Differentiate vector and pixel graphics.
6. What is fixed point scaling?
7. Explain term image processing.

2: : Answer the following questions: (Any Two) [14]

- (1) What is segment? Explain various operations of a segment.
- (2) Explain rotation about an arbitrary point in detail.
- (3) Explain even odd polygon inside test method.

3: : Answer the following questions: (Any Two) [14]

- (1) Explain boundary fill algorithm.
- (2) Explain method for character generation.
- (3) Discuss basic transformation of geometric shapes.

4: : Answer the following questions: (Any Two) [14]

- (1) Explain raster scan display and random scan display with their differences.
- (2) Explain Orthographic projections.
- (3) What is homogeneous coordinates? Explain 2D transformation in detail.

5: : Answer the following questions: (Any Two)

[14]

- (1) Explain reflection and shear transformations.
 - (2) Explain Three-Point perspective Transformation.
 - (3) Consider a line from P(0,0) to Q(8,6) .Use Bresenham's line drawing algorithm for rasterizing the line.
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