



# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)

Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE  
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Program : B.E (Computer Science) Max. Marks : 15  
Course : Computer Graphics and Multimedia Applications  
Course code : SCSA1503

## Assignment – 2

### Fill in the blanks (MCQs):

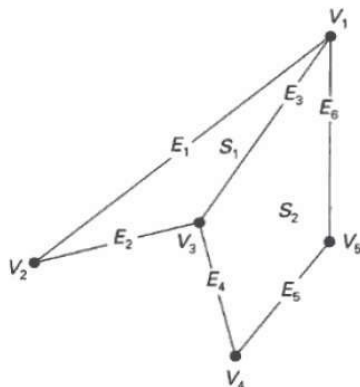
(5\*1 = 5 marks)

- Which of the following is not a basic transformation?  
a. Translation    b. Scaling    c. Rotation    d. Shearing
- Given a 3D object with coordinate points A(0, 2, 2), B(3, 2, 6), C(3, 0, 1), D(0, 0, 0). Apply the scaling parameter 2 towards X axis and 2 towards Y axis and the new transformed coordinates are .....
- How is the implicit curve represented?  
a.  $y = f(x)$     b.  $f(x,y)=0$     c.  $p(t) = f(t),g(t)$     d. None of the above
- CSG stands for .....
- In perspective projection, the lines of projection converge at a single point called .....

### Short Answers:

(5\*1 = 5 marks)

- What is Boundary Representation in 3D graphics?
- 



Identify the contents of a Vertex table

- Compare Object-Space method with Image-Space method

4. Show how sweep representations are used to construct 3D object from 2D shape?
5. How do you find the degree of a Bezier curve

**Long Answer:**

**(1\*5 = 5 marks)**

1. Construct Bezier Curve for the control points (4,2), (8,8) and (16,4)