SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
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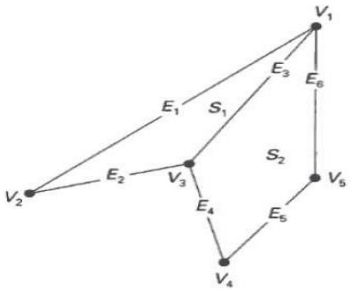
Continuous Assessment Examination 2 (Oct. 2021)

Program	**: B.E/B.Tech – CSE/IT**	**Max. Marks**	**: 30**
Course	**: Computer Graphics and Multimedia Applications**	**Time**	**: 1 Hour**
Course code	**: SCSA1503**	**Sem**	**: V**
Batch	**: 2019-2023**	**Date**	**: 25-10-2021**

Part-A **Answer ALL the questions** **(5×2=10)**

Q.No	Questions	CO
1.	What is Boundary Representation in 3D graphics?	**CO(3)**
2.	 Infer the contents of a Vertex Table	**CO(3)**
3.	List any two types of curves with equation defining them	**CO(3)**
4.	Compare Object-Space method with Image-Space method	**CO(4)**
5.	List the various types of light sources with example	**CO(4)**

Part-B **Answer ALL the questions** **(2×10=20)**

Q.No	Questions	CO
6.	a) Given a 3D object with coordinate points A(0, 3, 1), B(3, 3, 2), C(3, 0,0), D(0, 0, 0). Adapt the translation with the distance 1 towards X axis, 1 towards Y axis and 2 towards Z axis and obtain the new coordinates of the object. b) Compare Parallel projection with Perspective projection and list its pros and cons	**CO(3)**
	(OR)	
7.	a) Given a 3D triangle with coordinate points A(3, 4, 1), B(6, 4, 2), C(5, 6, 3). Apply the reflection on the XY plane and find out the new coordinates of the object.	**CO(3)**

	b) Explain fractals and self similarity concept and recommend its applications	

8.	Explain any four of the Visible Surface Detection methods in detail with suitable diagram	**CO(4)**
	(OR)	
9.	Discuss the various color models with their functionalities	**CO(4)**