d) Parametric form

viii. When some intensity of light is falling on the object surface and that surface reflects light in all the direction in equal amount then the resulting reflection is called :   1
- a) Directional reflection
- b) Diffuse reflection
- c) Specular reflection
- d) A and C both

ix. Ray-tracing is an extension of   1
- a) Ray casting
- b) Ray calling
- c) Ray sampling
- d) None of these

x. White colour in a Cartesian coordinate system can be represented as-   1

   a) (0,1,1)   b) (0,1,0)   c) (0,0,1)   d) (1,1,1)

Q2	i.	What is physical significance of a vanishing point?	2
	ii.	Differentiate between parallel projection and perspective projection?	3
	iii.	Outline the steps required to generate a hidden surface image using the depth buffer approach?	5
OR	iv.	Why translation transformation is used? Consider the effect of a translation in the x y z direction by -2, -4 and -6 respectively on the coordinate position vectors [1, 6, 4].	5
Q3	i.	Differentiate between interpolation and approximation?	2
	ii.	Write the properties of Bezier Curve?	3
	iii.	Describe briefly the steps carried out in rendering an object using phong shading?	5
OR	iv.	How Colour is handled in RGB colour model? Explain the use of indexed colour for setting colour attribute?	5

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Enrollment No.................................

Faculty of Engineering

CS3CO24 Computer Graphics & MultiMedia

Tech.

Branch/Specialisation: CSE

Duration: 1:30 Hrs.

Maximum Marks: 30

Q1

i. The positive value of the pivot point rotates an object in which of the following position?   1
a) Clockwise   b) Anti-Clockwise
c) Both Clockwise and Anti-Clockwise
d) Neither Clockwise nor Anti-Clockwise

ii. In which of the following, the projection plane is intersected by all three x, y and z axes at the same distances?   1
a) Cabinet projection   b) Perspective projection
c) Isometric projection   d) Cavalier projection

iii. Which of the following type of perspective projection is used in drawings of railway lines?   1
a) One-point   b) Two-point
c) Three-point   d) Perspective projection is not used to draw railway lines

iv. Which is true for back-face detection?   1
a) The back-face detection algorithm is always working well for all polyhedron
b) The back-face detection algorithm always works for a concave polyhedron
c) The back-face detection algorithm always works for a convex polyhedron
d) All of these

v. The depth sorting method reforms surfaces sorting in .... order of depth   1

a) Increasing   b) Decreasing   c) Both a & b   d)None of this

vi. In which year Z- buffer algorithm were described.   1
a) 1995   b) 1974   c)1987   d) 1979

vii. Which of the following is not a method to describe a curve mathematically?   1
a) Explicit form
b) Implicit form
c) Laplace form