Reg. No.: .....

Name: .....

University of Kerala

W6933

Third Semester FYUGP Degree Examination, November 2025

Discipline Specific Core Course

COMPUTER SCIENCE

UK3DSCCSC203/ UK3DSCCAP204 - Computer Graphics

Academic Level: 200-299

2024 Admission

Time: 1 Hour 30 Minutes(90 Mins.) **Max. Marks: 42**

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark Each.Answer all questions

Qn No.	Question	CL	CO
1	Define oblique projection	RE	4
2	Identify pivot point	RE	2
3	State Pixel.	UN	1
4	Define World Coordinate.	UN	2
5	Classify the types of transformations?	UN	3
6	Classify the different color Models	UN	1

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Explain the shearing transformation	UN	3
8	Explain modelling and world coordinates.	UN	2
9	Explain any four 3D display techniques.	AP	4
10	Explain the role of a Frame Buffer in Computer graphics	AP	1

Part C. 28 Marks.Time:60 Minutes (Cognitive Level:Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer.7 marks each.Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A)	AP	1, 1

Qn No.	Question	CL	CO
	Explain the Working Principal of CRT display device with neat diagram OR B) Identify the different color models in graphics		
12	A) Explain the types of 2D transformations in computer graphics. OR B) Illustrate perspective projection in detail	AN	3, 4
13	A) Explain DDA Algorithm OR B) Compare the A buffer and the Z buffer algorithms	EV	2, 4
14	A) Explain Polygon Clipping. OR B) Write a program for 2D translation of a triangle	CR	3, 3