SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
RAMAPURAM CAMPUS
FACULTY OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR (2022-2023)
CONTINUOUS LEARNING ASSESSMENT- 1

Sub Code/Name   : 18CSE390T COMPUTER VISION   Set: EVEN

Class   : III Year / V Sem / B.Tech (AIML)

Date   : 13-09-2022

Max Marks   : 25   Duration   : 60 mins

PART A (5x1= 5)
ANSWER ALL THE QUESTIONS

Q.No.	Question	Marks	CO	BL	PI
1.	A translation is applied to an object by_____. a) Enlarging the Object b) Repositioning it along with straight line path c) Repositioning it along with circular path d) Shrinking the Object	1	1	1	1.2.2
2.	The two-dimensional translation equation in the matrix form is _____. a) P'=P+T b) P'=P-T c) P'=P*T d) P'=p	1	1	1	1.2.1
3.	The rotation axis that is perpendicular to the xy plane and passes through the pivot point is known as _____. a) Rotation b) Translation c) Scaling d) Shearing	1	1	1	1.6.1
4.	In controllable interaction user can change the attributes of the _____. A) Images B) Widgets C) Videos D) Audios	1	1	2	2.5.1
5.	If the direction of the projection is normal then it is called as _____. A) Orthographic parallel projection B) Oblique parallel projection C) Perspective Projection D) Ortho-Oblique Projection	1	1	2	2.6.1

PART-B (2x4= 8)
ANSWER ALL THE QUESTIONS

Q.No.	Question	Marks	CO	BL	PI
6.	Define BRDF. What is Helmholtz reciprocity?	4	1	3	3.6.2
7.	Differentiate between Discrete Fourier Transform and Fast Fourier Transform.	4	1	3	3.6.4

PART-C (1x12= 12)
ANSWER ALL THE QUESTIONS

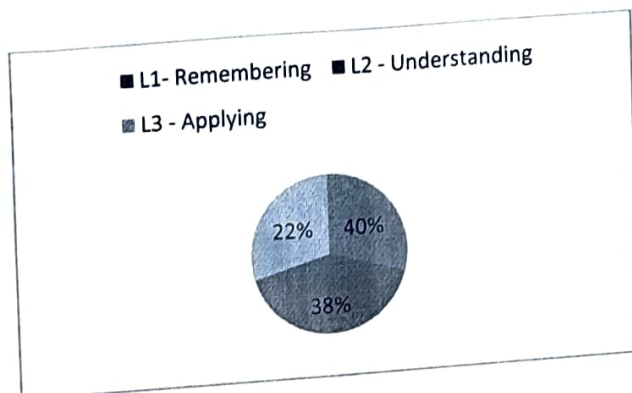| Q.No.	Question	Marks	CO	BL	PI
8.a	Illustrate briefly about Orthography and Para-perspective in 2D and 3D geometric primitives.	12	1	2	2.6.4
	[or]				
8.b	Explain the following Linear Filtering techniques, ❖ Separable filtering ❖ Band-pass and steerable filters	12	1	1	1.6.1

Outcome Alignment Matrix:

Question No.	BTL Distribution		
	L1	L2	L3
1	1		
2	1		
3	1		
4		1	
5		1	
6			4
7			4
8a		12	
8b	12		
Total	15	14	8
%	40%	38%	22%

Quality Matrix:

QUESTION NUMBER	CO distribution				
	CO1	CO2	CO3	CO4	CO5
1	1				
2	1				
3	1				
4	1				
5	1				
6	4				
7	4				
8a	12				
8b	12				
Total	37				
%	100				

Bloom's level Distribution:

- ■ L1- Remembering
- ■ L2 - Understanding
- ▨ L3 - Applying

22% 40% 38%

Prepared by: 6/9/2022

Mrs.S.Menaka

(Dr. C.G. BALAJI)

Course Coordinator:

Scrutinised by: 6/9/2022

[Dr V Gowri]

Verified and approved by HOD