



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: ODD

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 _____ can be recorded using a normal light source. a) Holograph b) Sonography c) Holography d) Photograph	1	1	1	1.2.2
2.	The translation distances(dx,dy) is called as _____. a) Translation vector b) Shift Vector c) Shear Vector d) Scaling Vector	1	1	1	1.2.1
3.	In 2D-translation, a point (x, y) can move to the new position (x', y') by using the equation _____. a) $x'=x+dx$ and $y'=y+dx$ b) $x'=x+dx$ and $y'=y+dy$ c) $X'=x+dy$ and $Y'=y+dx$ d) $X'=x-dx$ and $y'=y-dy$	1	1	1	1.6.1
4.	To generate a rotation, we must specify _____. a) Rotation angle b) Distances dx and dy c) Rotation distance d) All of the mentioned	1	1	2	2.5.1
5.	Which transformation distorts the shape of an object such that the transformed shape appears as if the object were composed of internal layers that had been caused to slide over each other? _____. a) Rotation b) Scaling up c) Scaling down d) Shearing	1	1	2	2.6.1

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

Q.No.	Question	Marks	CO	BL	PI
6.	Define Photometric image formation. Discuss about Light scatters when it hits a surface.	4	1	3	3.6.2
7.	Explain adaptive histogram equalization technique.	4	1	3	3.6.4

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

Q.No.	Question	Marks	CO	BL	PI
8.a	Discuss about the following point operators in image processing transforms. <ul style="list-style-type: none"> ◆ Pixel transforms ◆ Color transforms ◆ Compositing and matting 	12	1	2	2.6.4
[or]					
8.b	Explain briefly about Geometric primitives and transformations with neat diagram.	12	1	1	1.6.1

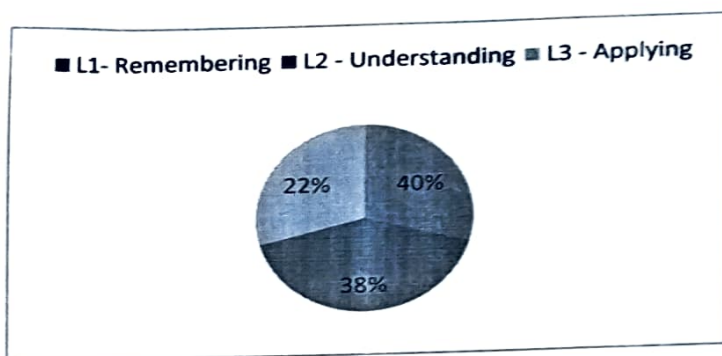
Outcome Alignment Matrix:

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:



Prepared by:

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Course Coordinator:

Scrutinised by:

[Dr V Gowri]

Verified and approved by HOD