

## SRM Institute of Science and Technology

## College of Engineering and Technology School of Computing

Mode of Exam

OFFLINECLASSROOM

## DEPARTMENT OF COMPUTATIONAL INTELLIGENCE

SRM Nagar, Kattankulathur – 603203, Chengalpattu District, Tamilnadu

Academic Year: 2022-2023 EVEN SEM SET B

Test : CLAT-3 Date: 05.05.2023
Course Code & Title: 18CSE481T / Applied Machine Learning Duration: 10.30-12.10.00Hr

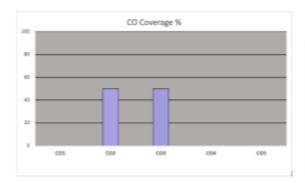
Year &Sem : III year / VI Sem Max. Marks:50

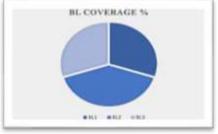
S.No.	Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14
1	CO1	Н	M	Н	-	Н	-	-	-			Н	Н	Н	Н
2	CO2	Н	M	Н	-	Н	-	-	-			Н	Н	Н	Н
3	CO3	Н	M	Н	-	Н	-	-	-			Н	Н	Н	Н
4	CO4	Н	M	Н	-	Н	-	-	-			Н	Н	Н	Н

	Part – A (10 x 1 = 10 Marks)							
Instructions: Answer All Questions								
Q. No	Question	Marks	BL	CO	PO	PI Code		
1	1. Computer vision is concerned with modeling and replicating human vision using computer software and hardware.	1	2	CO3	PO3	3.2.1		
	A. TRUE B. FALSE C. Can be true or false D. Can not say							
2	Computer vision is a discipline that studies how to reconstruct, interrupt and understand a 3d scene from its      A. 1d images     B. 2d images     C. 3d images     D. 4d images	1	2	CO3	PO3	3.2.1		
3	3. Computer vision is divided into basic categories  A. 1 B. 2 C. 3	1	2	CO3	PO3	3.2.1		

	D. 4					
4	Which vision includes object recognition and 3D scene Interpretation?	1	2	CO3	PO3	3.2.1
	A. Low-level vision					
	B. Intermediate-level vision					
	C. High-level vision					
	D. All of the above					
5	The input and output of image processing are?	1	2	CO3	PO3	3.2.1
	A. signal and image					
	B. signal only					
	C. image only					
	D. depends on input					
6	How many types of comparisons are there in face recognition?	1	2	CO3	PO4	3.2.1
	A. One					
	B.Two					
	C.Three					
	D.Four					
7	Which one is not a behavioral type biometric?	1	2	CO3	PO4	3.2.1
	A.Retina scan					
	B. Voice scan					
	C. Signature scan					
	D. All of the above					
8	Which application comes under the access	1	2	CO4	PO5	3.2.1
	management area?					
	A.Permission-based systems					
	B. Data privacy					
	C. Suspect identification					
	D. None of the above					
9	SSSIFD?	1	3	CO4	PO5	3.2.1
	A.Simple Shot Scale-Invariant Face Detector					
	B. Single Shot Scale-Invariant Face Detector					
	C. Simple Scale Shot-Invariant Face Detector					
	D. None of the above					
10	Which characteristics are taken together in	1	3	CO4	PO5	3.2.1
	chromaticity?					
	a) Hue and Saturation					
	b) Hue and Brightness					
	c) Saturation, Hue, and Brightness					
	d) Saturation and Brightness					
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PART -B (4* 4=16 Marks) Answer any four								
11	How histograms are used in making clear cut Image analysis?	4	1	CO4	PO4	3.2.2		
12	Elaborate the steps in learn to extract and load images in image analysis	4	1	CO3	PO4	4.2.3		
13	List and explain the major features used for biometric face analysis.	4	2	CO4	PO5	5.1.2		
14	How face detector on gray scale image works?	4	3	CO4	PO5	5.2.2		
15	How to build eye and nose detector?	4	3	CO4	PO5	5.2.2		
PART C (2*12= 24 MARKS) Answer any two								
16.i	Relate the role of SIFT. Use cases of SIFT feature points and SIFT detection for any image processing techniques.  Or  Write a short on A. Histogram equalization (4) B. Sobel filer (4) C. Canny edge detector (4)	12	3	CO4	PO4	4.2.2		
17.i	How to capture and process a video from a Webcam? Give your answers in a detail note. Or Write the procedure to convert a dataset from a five-dimensional set to three-dimensional set.	12	3	CO4	PO5	5.2.2		





**Approved by the Audit Professor/Course Coordinator**