



R20 Regulation

Subject code:3P6GC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VI Semester Supplementary Examinations, May 2025

ADVANCED COMPUTER VISION

CSE(AI&ML)

Maximum Marks: 70

Date: 20.06.2025

Duration: 3 hours

- Note: 1.This question paper contains two parts A and B.
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X2M=20 Marks)		Marks	CO	BTL
1	What is computer vision?	2M	1	L1
2	What is a Point operator?	2M	1	L1
3	Define Mean shift and mode finding?	2M	2	L1
4	Define extrinsic calibration?	2M	2	L1
5	What is epipolar geometry?	2M	3	L1
6	Define chirality?	2M	3	L1
7	Define Vignetting?	2M	4	L1
8	What is point spread function (PSF)?	2M	4	L1
9	What is hybrid geometry?	2M	5	L1
10	Define Eigenfaces?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	a) Explain linear filtering and give examples of linear filtering. b) Write short notes on neighbor's operators?	5M 5M	1	L2
	OR			
12	Discuss about to change the resolution of an image before proceeding further using Pyramids and wavelets.	10M	1	L2
13	What is meant by Normalized cuts and give simple graph example?	10M	2	L2
	OR			
14	Write short notes on Feature detection and matching?	10M	2	L2
15	Explain about problems of motion.	10M	3	L2
	OR			
16	Write short notes on Factorization?	10M	3	L2
17	What is Blending and explain type of Blending with example?	10M	4	L2
	OR			
18	Draw Image sensing pipeline framework and explain with example.	10M	4	L2
19	Explain about Layered depth images.	10M	5	L2
	OR			
20	Explain about types of recognition.	10M	5	L2