



R20 Regulation

Subject code:3P6GC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, December 2024

ADVANCED COMPUTER VISION

(CSE (AI&ML))

Maximum Marks: 70

Date:02.01.2025

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 which carries 10M.
 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)		CO	Bloom Tx
1	What is computer vision?	1	L1
2	List any five operators in CV.	1	L1
3	Define Mean shift and mode finding?	2	L1
4	Define Intrinsic calibration.	2	L1
5	What is epipolar geometry?	3	L1
6	Define chirality?	3	L1
7	Define Vignetting?	4	L1
8	What is point spread function (PSF)?	4	L1
9	Define kinematic model or kinematic chain effect?	5	L1
10	What is Adaptive shape modelling?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Describe the fundamental steps in image processing with example?[10M]	1	L2
OR			
12	Differentiate linear spatial filter and non-linear spatial filter? [10M]	1	L2
13	Write short notes on image segmentation? [10M]	2	L2
OR			
14	Write short notes on Feature detection and matching? [10M]	2	L2
15	Discuss about Triangulation and Factorization. [10M]	3	L2
OR			
16	Write short notes on Spline-based motion. [10M]	3	L2
17	Explain details about Flash/no-flash photography algorithm? [10M]	4	L2
OR			
18	Discuss details about Super-resolution and blur removal? [10M]	4	L2
19	Explain about Layered depth images? [10M]	5	L2
OR			
20	Explain about types of recognition? [10M]	5	L2

