

# GUJARAT UNIVERSITY

## B.E. (SEM. - VIII) (CE) Examination (ATKT)

### 805 Computer Vision (New)

1	List out and describe research and applications of computer vision.
2	Explain texture synthesis and shape from texture in detail.
3	Explain texture segmentation.
4	Explain Radiometry – measuring light.
5	Explain XYZ and RGB color model.
6	Describe local shading models for point sources.
7	Describe coordinate systems and homogeneous coordinates.
8	Explain image based rendering application in detail.
9	Explain radiometry for colored lights.
10	Explain High level vision with Correspondence and pose consistency.
11	Explain Segmentation using clustering methods.
12	Describe and explain with suitable diagram Projective structure from motion.
13	Explain shadows and shading color for image formation.
14	Explain perspective projection and affine projection.
15	Explain texture segmentation.
16	Explain local shading models for point sources.
17	Write a short note on Fitting.
18	Explain Segmentation using clustering methods.
19	Write short notes on: Linear filters and Edge detection.
20	Write short notes on: Grassman's law for color matching
21	List out color models used for viewing the surface. Explain any two.
22	Write short note on Perspective projection, affine projection and shadowing.
23	What is segmentation? List out types of segmentation and explain any one in detail.
24	How edge detection is done when two objects are overlapped? Explain any one method.
25	Write short note on radiometry for colored lights.
26	List out and explain applications of computer vision.
27	What is co ordinate system? How any object can be displayed in 3 D coordinate system?
28	What is shading? Explain various sources of point shading.
29	Which law is used for color matching? Explain in detail.
30	Explain parallel and perspective projection.
31	What is rendering? Explain rendering of image with example.
32	Write short note on XYZ and RGB color model.
33	How do you achieve Correspondence and pose consistency in high level vision?
34	List out methods /algorithm used for edge detection. Explain any one in detail.
35	What is the use of Linear filters? Explain in detail.
36	How computer vision can be use in real time applications? Give the area of research in same?
37	Explain texture synthesis and shape from texture in detail.
38	Explain texture segmentation.
39	Explain Radiometry – measuring light.
40	Explain XYZ and RGB color model.

