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| 1 | Define Computer Vision? What are the levels of computer Vision? | Computer vision is a field of artificial intelligence (AI) that… | Unit 1 | CO1 |  |
| 2 | List the differences between intrinsic and extrinsic camera parameters. | The pinhole camera parameters are represented in a 3-by-4 matrix… | Unit 1 | CO1 |  |
| 3 | What are the applications of computer vision? | 1. Computer Vision in Healthcare The Healthcare industry is rapidly… | Unit 1 | CO1 |  |
| 4 | Illustrate the pinhole camera model. | The pinhole camera model describes the mathematical relationship between the… | Unit 1 | CO1 |  |
| 5 | Explain how medical image analysis is an application of Computer Vision? | Computer vision has been used in various healthcare applications to… | Unit 1 | CO1 |  |
| 6 | Choose and draft a correct explanation of computer graphics. | Computer Graphics involves technology to access. The Process transforms and… | Unit 1 | CO1 |  |
| 7 | Contrast a case study on Liscense plate recognition. | License Plate Recognition (LPR) is the most interesting and challenging… | Unit 1 | CO1 |  |
| 8 | Contrast a case study on facial surveillance. | Face recognition is a technology capable of identifying or verifying… | Unit 1 | CO1 |  |
| 9 | Define camera calibration? Name different types of projection. | Geometric camera calibration, also referred to as camera resectioning, estimates… | Unit 2 | CO2 |  |
| 10 | Explain perspective Projection and derive the projection matrix. | Perspective projection or perspective transformation is a linear projection where… | Unit 2 | CO2 |  |
| 11 | Compare the differences between orthographic perspective projection and weak perspective projection | Orthographic views are 2 dimensional views. You need multiple views… | Unit 2 | CO2 |  |
| 12 | Explain Homogenous Coordinates with geometric Intuition. | inate provides a standard to perform certain standard operations on… | Unit 2 | CO2 |  |
| 13 | What is scaled orthographic projection? Explain. | Weak perspective (or scaled orthographic) projection is a good approximation… | Unit 2 | CO2 |  |
| 14 | Construct a note on Binocular imaging systems ? | Generally, binocular imaging systems having a single entrance pupil, such… | Unit 2 | CO2 |  |
| 15 | Contrast the concept of image coordinate system and camera coordinate system | An image coordinate system defines the spatial reference in terms… | Unit 2 | CO2 |  |
| 16 | Explain the concept of radiosity. | Radiosity is a method of rendering based on an detailed… | Unit 2 | CO2 |  |
| 17 | Explain Orthographic & Perspective Projection, Camera model and Camera calibration, |  | Unit 2 | CO2 |  |
| 18 | Explain Radiance, Irradiance, Brightness, color |  | Unit 2 | CO2 |  |
| 19 | Discuss Diverse Computer Vision Applications |  | Unit 2 | CO2 |  |
| 20 | What are different Image Formation Models |  | Unit 2 | CO2 |  |
| 21 | How Structure determination, shape from shading can be done |  | Unit 2 | CO2 |  |
| 22 | What do you understand by Weak perspective projection |  | Unit 2 | CO2 |  |