Chapter 4

1. Scenario based question on applicability of pre trained models like Resnet50,Alexnet,VGG
2. Numerical based on Receptive field and number of parameters in VGG
3. How does the dimension reduction mechanism work in the Inception model, and
4. What are the key differences between normal image classification tasks and fine-grained image recognition.
5. Explain the image reidentification problem in computer vision

Chapter 5

6. Explain types of image segmentation(instance and semantic)
7. Scenario based question on PPnet,Unet and FPN.
8. Numerical based on bilinear interpolation.
9. Numerical related to single linkage and complete linkage clustering
10. Concept of scene parsing.

Chapter 6

11. Conceptual difference in action recognition, action classification, and action localization in the context of video analysis.
12. How do the Horn and Schunck and Lucas-Kanade optical flow estimation methods compare in terms of their basic concepts, computational cost, strengths, weaknesses, and overall suitability for applications?
13. How spatio temporal analysis used to find pattern,trends and anamoly detection.
14. Concept of optical flow.
15. Motion Model-Based Tracking(Kalman and particle filter)
16. Concept of multiple object tracking.