

Total No. of Printed Pages:1

SUBJECT CODE NO: E-8020
FACULTY OF ENGINEERING AND TECHNOLOGY
M.E. (Comp.Sci.& Engg.) Examination Nov/Dec 2017
Computer Vision
(Revised)

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

- N.B
- i) Solve any two Questions from each section.
 - ii) Assume suitable data, if necessary and state it clearly.

SECTION A

- Q.1
- a) What is image segmentation? Explain mean shift segmentation in detail. 10
 - b) Explain the fundamental steps in digital image processing with block diagram. 10
- Q.2
- a) With the help of typical pattern recognition system explain any one suitable application. 10
 - b) Explain K-means clustering with example. 10
- Q.3
- a) What is the problem of dimensionality reduction? How principle component analysis is useful for dimensionality reduction. 10
 - b) Discuss the steps of linear discriminate analysis. 10

SECTION B

- Q.4
- a) Explain in detail RANSAC. 10
 - b) Describe different region based shape description methods. 10
- Q.5
- a) What is texture? Explain statistical texture description methods. 10
 - b) How scene reconstruction is done from multiple views using triangulation projective reconstruction and matching constrains. 10
- Q.6
- a) What are interest points? How it is useful for motion detection. 10
 - b) Discuss the concept of video tracking in detail. 10