CODE NO:- Z-8173
FACULTY OF ENGINEERING & TECHNOLOGY
M.E (CSE)Year Examination - June– 2015
Computer Vision
(Revised)

[Time: Three *Hours*]   [Max. Marks: 80]

"Please check whether you have got the right question paper."

N.B   i)   Solve <u>any two</u> questions from each section.
              ii) Assume suitable data, if necessary& state it clearly.

SECTION-A

Q.1	a)	What is computer vision? Explain the applications of computer vision.	10
	b)	Write difference between Enhancement and Restoration.	05
	c)	Explain mean shift image segmentation.	05
Q.2	a)	Explain K-means clustering with example.	10
	b)	Explain object and pattern recognition.	10
Q.3	a)	Discuss the steps of linear discriminate analysis.	10
	b)	Explain graph matching based recognition.	05
	c)	Calculate Eigen values of the matrix $A = \begin{bmatrix} 2 & 4 \\ 6 & 5 \end{bmatrix}$	05

SECTION -B

Q.4	a)	Explain in detail RANSAC	10
	b)	Write note on	10
		i) Hierarchical Image understanding control	
		ii) Model -based Image understanding control	
Q.5	a)	Explain in detail the concept of scene recontruction from multiple views.	10
	b)	What is 2.5D sketch? What are their applications?	05
	c)	Write a note on homograph.	05
Q.6	a)	What are interest points? How it is useful for motion detection.	10
	b)	What is object path analysis?	05
	c)	Explain the motion assumptions which helps to localize moving object.	05