SUBJECT CODE NO:- P-8172 FACULTY OF ENGINEERING AND TECHNOLOGY M.E.(Comp. Sci.& Engg.) Examination MAY/JUNE-2016 Computer Vision (Revised)

[Time:Three Hours]			[Max Marks:80]	
N.B		"Please check whether you have got the right question paper." i) Solve <u>any two</u> questions from each section. ii) Assume suitable data, if necessary and state it clearly. Section A		
Q.1	a) b)	What is image segmentation? Explain mean shift segmentation in detail. What are sharpening filters? How derivative are used for generating different sharpening spatial filters?	10 10	
Q.2	a) b)	With the help of typical pattern recognition system explain any one suitable application. Elaborate the syntactic recognition technique.	10 10	
Q.3	a) b)	Explain graph matching based object recognition process. What is the problem of dimensionality reduction? How principle component analysis is useful for dimensionality reduction.	10 10	
Section B				
Q.4	a) b)	Describe different contour based shape description methods. Explain different images understanding control strategies.	10 10	
Q.5	a)	Write a note on: i) 3-D vision ii) Maximum likelihood estimation	10	
	b)	What is texture? Explain statistical texture description methods.	10	
Q.6	a) b)	Explain differential motion analysis method. Discuss the concept of video tracking in detail.	10 10	