Reg. No.:										
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Question Paper Code: 52312

M.E. DEGREE EXAMINATION, NOV 2016

First Semester

Computer Science and Engineering

15PCS102 - MACHINE LEARNING TECHNIQUES

(Regulation 2015)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART - B (5 x 20 = 100 Marks)

1. (a) Explain the machine learning approach to knowledge acquisition. (20)

Or

- (b) What is machine learning? Give an overview of machine learning with suitable diagram. (20)
- 2. (a) Discuss various artificial neural network architectures.

Or

- (b) Construct the regularized regression method and apply the regression functions in any one of the field of machine learning. (20)
- 3. (a) (i) Explain K-Nearest neighbor learning.

(10)

(ii) Explain in detail about navie Bayes classifier.

(10)

(20)

Or

(b) Write short notes on K-d trees.

(20)

4.	(a) Explain the basic decision tree learning algorithm.	(20)
	Or	
	(b) Explain about regression and the Bias-Variance decomposition.	(20)
5.	(a) Explain detail about generalization in reinforcement learning.	(20)
	Or	
	(b) Differentiates correlated equilibrium and Nash equilibrium.	(20)