E		Reg. No.										
		Question Pa	per Co	ode:	55(	221	]					
	Ph.D COURSE WORK EXAMINATION, MAY 2018											
Elective												
Course Work												
15PCS521 - MACHINE LEARNING												
(Regulation 2015)												
Duration: Three hours Maximum: 100 Marks												
Answer ALL Questions												
		PART - A (5 x	20 = 10	0 Ma	rks)							
1.	(a)	Explain the Machine Learning Acquisition.	Approa	ch t	o k	Know	ledg	ge C	CO1-	U	(	20)
		Or										
	(b)	Explain detail about theory of general	lization.					(	CO1-	U	(	20)
2.	(a)	Explain Support Vector Classification	n in deta	ils				(	202-	U	(	20)
		Or										
(b) Determine and report the performance of SVMs for the same set of hernels and the same sets of features. To determine the trade-off parameter C, use 10-fold cross validation with the ten folds previously defined (let the other parameters pf polynomial kernels in libsvm, Y and c, be equal to their default values 1). Give a plot comparing the performance of SVMs with that of the Navie algorithm for each value of P.								of C ff ls ls ot ie	202-	App	(,	20)
3.	(a)	Explain detail about navie Bayes class	ifier.					(	203-	U	(	20)
		Or								<b>r</b> T	,	•••
	(b)	Explain major types of learning.						(	203-	U	(	20)
4.	(a)	Discuss the issues in decision tree lear	ning.					(	CO4-	U	(	20)
		Or										

(b) Explain detail about kernel regression. CO4-U (20)

5.	(a)	Illustrate genetic algorithms and evolutionary programming.	CO5-App	(20)
		Or		
	(b)	Identify Why Game Theory at COLT.	CO5-App	(20)