E		Reg. No. :											
	Question Paper Code: 51Q02												
M.E. DEGREE EXAMINATION, NOV 2018													
	First Semester												
	Computer Science and Engineering												
	15PCS102- MACHINE LEARNING TECHNIQUES												
(Regulation 2015)													
Du	Duration: Three hours Maximum: 100 Marks								ks				
		Answer ALL	Que	stio	ıs								
		PART - A (5 x 20	0 = 10	00 N	larks	5)							
1.	(a)	What is learning? Write any four learn case give the expression for weight- up	ing t dating	echı g.	nique	es an	id in	eacl	h C	01-	U	(20))
	Or												
	(b)	Define learning. Explain the concept of	learn	ing	task.				С	01-	U	(20))
2.	(a)	Explain Support Vector Classification in	n deta	ils.					С	02-	U	(20))
		Or											
	(b)	Illustrate the gradient search to maximiz	e like	eliho	od i	n a n	eura	l net.	. C	02-	U	(20))
3.	(a)	Explain the distance weighted nearest nearest	eighb	or a	lgori	thm.			С	03-	U	(20))
		Or											
	(b)	Explain detail about K-nearest neighbor	algo	rithr	n.				С	03-	U	(20))
4.	(a)	Explain detail about Variance decompos	sition	of e	error.				С	04-	U	(20))
		Or											
	(b)	Explain details about Clustering Method	ls.						С	04-	U	(20))

5.	(a)	Identify what are the machine learning applications in robotics.	CO5- Ana	(20)
		Or		
	(b)	Identify Why Game Theory at COLT.	CO5- Ana	(20)