GIET MAIN CAMPUS AUTONOMOUS, GUNUPUR - 765022						
Registration No:						M.TECH
Total Number of Pages : 1 M.TECH 1 ST SEMESTER REGULAR EXAMINATIONS, DECEMBER 2018						
MACHINE LEARNING						
Branch: CS, Subject Code:MCSPE1031 (Regulations 2018)						
Time: 3 Hours Max Marks : 70 Question Code:RD18002						le:RD18002063
		$(10 \times 2=2)$	-	Quest		
 a. How is KNN different f b. Define precision and references c. What is the trade-off bed d. What is algorithm indepereter e. What is the difference bits f. What are the three stage g. Distinguish between heighther h. Explain the two compositions i. Explain what is PAC Logither j. Define the term Support 	call. tween bias and var bendent machine le between artificial le es to build the hypo uristic for rule lear hents of Bayesian le earning?	riance? earning? earning and otheses in m ming and he logic progra	hachine lea euristics fo	arning?		?
	PART-B (5 X		,			
	ver any five question		e followin	g.		
2. (a) What are the objectives of machine learning?(b) Give a brief account on Measuring classifier performance.						[5]
(b) Give a brief account on M	leasuring classifie	er performar	ice.			[5]
3. (a) Explain multi-layer perce(b) Describe the working bel				diagrams	s.	[5] [5]
4. (a) Explain the Canonical ca	ses for conditional	independer	nce.			[5]
(b) Explain the various techr	iques for optimiza	ation of Sup	port Vecto	or Machi	ne(SVN	<i>A</i>). [5]

(b) Distinguish between PCA and Kernel PCA.[5]7. (a) Explain Binary Classification Problem.
(b) What are the the advantages and disadvantages of Baye's estimator.[5]8. Write Short notes on
(a) Unsupervised learning.
(b) Dimensionality Reduction.[5]

[5]

[5]

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5. (a) Explain back-propagation neural network algorithm.

6. (a) Compare and Contrast between K-Means and Kernel k-Means.

(b) Compare hard computing and soft computing.

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