(08 Marks) (08 Marks)

USN

Eighth Semester B.E. Degree Examination, November 2020 **Machine Learning**

May Marks: 80

Time: 3 hrs.		hrs. Max. N	Marks: 80	
Note: Answer any FIVE full questions irrespective of modules.				
		Module-1	a function	
1	a.	Explain briefly the choosing a representation for the target function and	(08 Marks)	
	b.	approximation algorithm. With the diagram, explain the final design of the checkers learning program.	(08 Marks)	
	υ.	With the diagram, explain the man design of the three services.		
2	a.	What is the concept Learning task, explain with as example.	(08 Marks)	
	b.	Explain the candidate elimination learning algorithm.	(08 Marks)	
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•		Module-2	(08 Marks)	
3	a. b.	Explain the decision tree for the concept of play tennis. What is reduced error pruning and rule post pruning?	(08 Marks)	
	υ.	What is reduced error pruning and rule post pruning.		
4	a.	What is the gradient descent algorithm for training a linear unit?	(08 Marks)	
	b.	Explain the back propagation algorithm for feed forward network containing t	wo layers of	
		sigmoid units?	(08 Marks)	
Module-3				
5		What is the Baye's theorem, explain briefly with an example.	(08 Marks)	
3	a. b.	What is the Brute-force MAP learning algorithm, explain briefly.	(08 Marks)	
	o.			
6	a.	Explain the minimum description length principle.	(08 Marks)	
	b.	What is the Naïve Baye's classifier? Explain briefly.	(08 Marks)	
		Module-4		
7	•	What is the k-nearest neighbor learning? Explain briefly.	(08 Marks)	
7	a. b.⁴	Explain briefly the locally weighted linear Regression.	(08 Marks)	
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	all a			
8	a.	What is the general to specific Beam search? Explain briefly.	(08 Marks)	
	b.	What is learning sets of First Order Rule (FOIL)? Explain briefly.	(08 Marks)	
		Modulo 5		
0	9 a. What is the explaination based learning algorithm PROLOG – EBG? Explain briefly.			
9	a. b.	Explain the remarks on explaination based learning.	(08 Marks)	
	U,	Displain the temperature of the property of th	(08 Marks)	

a. Explain briefly the Hypothesis space search.b. What is the FOCL algorithm? Explain briefly.

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.