		CBCS SCHEME	
SN			15EC834
Eighth Semester B.E. Degree Examination, Jan./Feb. 2021			
ın	ne: . N	3 nrs. Max. Ma Note: Answer any FIVE full auestions, choosing ONE full auestion from each mo	arks: 80 dule
	1		
	0	What is Machina Learning? Explain how some discipling have influenced th	. Maahina
	a.	Larning?	(08 Marks)
	b.	Give details about some successful applications of Machine Learning with exampl	es. (08 Marks)
		OR	
	a. b.	Explain different perspective and issues in Machine Learning. Explain the steps involved in the final design of checkers learning system describ distinct program modules	(08 Marks) ed by four (08 Marks)
		Module-2	(***********
	a.	What are appropriate problems for decision tree learning?	(08 Marks)
	b.	Give decision tree to represent the following Boolean function.	(00 M l)
		Av[baaC]	(08 Marks)
	a.	Explain the concept of a perceptron with neat diagram.	(08 Marks)
	b.	Explain the remarks on the Back propagation Algorithm.	(08 Marks)
Module-3			
	a. h	Define and explain Bayes theorem.	(08 Marks)
	U.	Bayesian theorem.	(08 Marks)
	a.	Describe the concept of Minimum Description Length (MDL) principle and	obtain the
	1	equation for h <sub>MDL</sub> .	(08 Marks)
	D.	Explain Naive Bayes classifier.	(08 Marks)
	а	<u>Module-4</u> What are the instant based learning? Explain key features and disadvantage	s of these
	Ċ	methods.	(08 Marks)
	b.	Explain K-nearest neighbor learning.	(08 Marks)
	9	OR Explain Case Based Reasoning (CBR) with CADET system	(Al Marks)
	a. b.	List out the advantages of FOIL algorithm.	(08 Marks) (08 Marks)
		Module-5	
	a. ւ	Explain and analyze the learning with perfect Domain theories.	(08 Marks)
	D.	space search.	(08 Marks)
		OR	
	a.	Write reinforcement learning problem characteristics.	(08 Marks)
	b.	Explain why the Q-learning algorithm does not specify how actions are chose Agent.	(08 Marks)
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