R09

Code No: C6307

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech I Semester Examinations March/April-2011 MACHINE LEARNING (IMAGE PROCESSING)

Time: 3hours Max.Marks:60

Answer any five questions All questions carry equal marks

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1. a)	What is Machine learning? Explain different perspectives and issue learning.	es in machine
b)	What are the concepts of learning as search?	[12]
2. a) b)	Explain basic decision tree algorithm. Explain how hypothesis space search is carried in decision tree learn	ing. [12]
3. a) b)	Explain Back propagation algorithm. Mention its limitations. Discuss a general approach for deriving confidence intervals.	[12]
U)	Discuss a general approach for deriving confidence intervals.	[12]
4. a)	Discuss maximum likelihood hypothesis for predicting pro Bayesian learning.	obabilities in
b)	Explain Gibs algorithm.	[12]
5. a)	Explain Hypothesis space search in genetic algorithms.	
b)	How Genetic Algorithm can be parallelized?	[12]
6. a)	Discuss Explanation-Based learning of search control knowledge.	
b)	How learning can be carried with perfect domain theories?	[12]
7. a)	Explain Inductive analytical approaches to learning.	
b)	Explain Lazy and Eager learning.	[12]
8.	Write short notes on the following:	
	a) Temporal difference learning.	
	b) Dynamic programming.	[12]
