R18

[7+8]

Code No: 155BZ

b)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, February - 2022 MACHINE LEARNING

(Information Technology)

Time: 3 hours Max. Marks: 75

Answer any five questions All questions carry equal marks

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1.a) b)	What do you mean by a well –posed learning problem? Explain the important features that are required to well-define a learning problem. [6]	5+9]
2.a) b)	Discuss about candidate elimination algorithm in detail with example. Elaborate the issues in Decision Tree learning.	9+6]
3.	Demonstrate multilayer feed forward mechanism in back propagation with suit example and how the error is back propagated.	table [15]
4.a) b)	How to estimate hypothesis accuracy in artificial neural networks? Explain the methods for comparing the accuracy of two hypotheses.	7+8]
5.a) b)	Explain in detail about Naïve Bayes algorithm for learning classification problems. Discuss Maximum Likelihood and Least Square Error Hypothesis.	9+6]
6.	Demonstrate k-nearest neighbor algorithm with suitable example.	[15]
7.a) b)	What are the salier relatures of a Genetic Algorithm? Demonstrate sequential covering algorithm with suitable example.	7+8]
8.a)	Demonstrate explanation-based learning of search control knowledge.	

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Explain how to alter the search objective by using prior knowledge.