Code No: 155BZ

R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, March - 2021
MACHINE LEARNING
(Information Technology)

Time: 3 Hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

1.a) Explain about Decision Tree Learning Algorithm with an example.
 b) Summarize the issues in Decision Tree learning.   [8+7]

2.a) Demonstrate face recognition application using back propagation.
 b) How to estimate hypothesis accuracy in artificial neural networks?   [8+7]

3.a) Discuss about Gibs algorithm with suitable example.
 b) Describe k-nearest neighbor algorithm. Elaborate why it is called instance based learning?   [7+8]

4.a) Distinguish between active learning and reinforcement learning.
 b) Demonstrate Q-learning algorithm with an example.   [6+9]

5.a) Demonstrate explanation-based learning of search control knowledge.
 b) How to augment search operators using prior knowledge?   [8+7]

6.a) Explain about concept learning and list out its benefits.
 b) How to compare various learning algorithms?   [7+8]

7.a) Explain the problems I neural networks learning.
 b) Explain how to estimate the hypothesis accuracy.   [7+8]

8.a) Explain about K-nearest neighbor algorithm.
 b) What are the reasons for the popularity of genetic algorithms?   [8+7]

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