

Code No: 156BN**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, February - 2023****MACHINE LEARNING****(Computer Science and Engineering)****Time: 3 Hours****Max. Marks: 75**

- Note:** i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A**(25 Marks)**

- 1.a) Define Machine learning. [2]
b) Write about inductive bias. [3]
c) Define hypothesis. [2]
d) Write about sampling theory. [3]
e) Define Eager learning. [2]
f) What is lazy Learning? [3]
g) Define term Genetic. [2]
h) Discuss Dynamic Programming. [3]
i) Define explanation-based learning. [2]
j) Write about control knowledge. [3]

PART – B**(50 Marks)**

2. Which disciplines have their influence on machine learning? Explain with examples. [10]
OR
3.a) Explain the two uses of features in machine learning.
b) Discuss about decision tree representation, in detail. [5+5]
4. Explain in detail about Kernel Perceptron. [10]
OR
5. Discuss in detail about representation of Neural Networks. [10]
6. Describe briefly about k-nearest neighbor algorithm. [10]
OR
7.a) Discuss about Bayesian belief networks.
b) Explain about Bayes theorem. [5+5]
8. Discuss Briefly about Genetic algorithms in detail. [10]
OR
9.a) Discuss about Q-learning, in detail.
b) Explain temporal difference learning in detail. [5+5]

10. Explain about PROLOG-EBG, in detail. [10]

OR

11.a) Discuss about augment search operators.

b) Explain about search control knowledge in detail. [5+5]

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