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Name of Examination : **Winter 2020** - (Preview)

Course Code & Course Name : **CO304UB - Professional Elective-I- Machine Learning**

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Maximum Marks : **60**   Duration : **3 Hrs**

`Edit`   `Print`   `View Answer Key`   `Close`   **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. *All questions are compulsory.*
2. *Illustrate your answer with suitable figures/sketches wherever necessary.*
3. *Assume suitable additional data; if required.*
4. *Use of logarithmic table, drawing instruments and non programmable calculators is allowed.*
5. *Figures to the right indicate full marks.*

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1)   Solve any two

   a) State and explain various well posed machine learning problem   [6]

   b) What is concept learning? State Find-S algorithm for concept learning   [6]

) c) Explain inductive bias with example   [6]

2)   Solve any two

   a) What is decision tree learning also explain it with proper example   [6]

   b) What is perceptron Explain perceptron and delta learning rules   [6]

   c) Write Back propagation machine learning algorithm   [6]

3)   Solve any two

   a) State and explain various attributes and characteristics of learning problem?   [6]

   b) What is instance based machine learning? Also state various advantages and disadvantages of instance based learning   [6]

   c) Draw and explain Biological Neuron and Artificial Neuron   [6]

4)   Solve all

   a) Draw and explain general to specific beam search in sequential covering   [6]

   b) What is analytical learning also compare it with inductive learning   [6]

5)   Solve all

   a) Discuss Explanation-based learning of search control knowledge   [6]

   b) State and explain Q learning in reinforcement learning with proper example   [6]

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