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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow

M.Tech

FIRST YEAR (SEMESTER-II) THEORY EXAMINATION (2020-2021)

(Subjective Type)

Subject Code: AMTAI0201 **Max. Mks. : 30**

Subject: Machine Learning **Time : 50 Minutes**

General Instructions:

All questions are compulsory.

Question No. 1 to 15 are subjective type question carrying 3 marks each. Attempt any 10 out of 15 questions.

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
1	Define Reinforcement learning		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
2	What is Overfitting, and How Can You Avoid It?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
3	Define Semi-Supervised Learning.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
4	Discuss the perspective and issues in machine learning.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
5	Define Concept and Concept Learning.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
6	Why KNN is called lazy learning algorithm?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
7	Explain EM Algorithm.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
8	Explain the concept of a Support Vector Machine		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
9	Define Neural Network.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
10	List down the some of the popular activation functions in neural network.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
11	Define the concept of back-Propogation.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
12	Describe Hebb's Learning.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
13	Why it is called Q- learning?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
14	Compare logistic regression and polynomial regression.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
15	Brief on crossover and operators of it.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant