

M.Sc. - II (Computer Science) (NEP Pattern) - Semester-III
03MSCCS04.2 - Elective-II Paper-V : Machine Learning

P. Pages : 1

Time : Two Hours



GUG/W/24/15971

Max. Marks : 40

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram wherever necessary.
 3. Avoid vague answers and write the answer specific to question only.

Either

1. a) Explain in detail about perspectives and issues of machine learning. 4
b) Write a note on – 4
i) PAC learning ii) Version spaces

OR

- c) How a learning system is designed? Explain. 4
d) Explain in detail any two types of learning. 4

Either

2. a) Define regression trees. Explain classification of decision tree. 4
b) Write in detail about K-mode clustering. 4

OR

- c) Explain in detail multilayer perception. 4
d) What is meant by Kernel functions? Explain. 4

Either

3. a) Explain in detail the concept of error correcting output codes. 4
b) Explain in detail note on KD-Tree. 4

OR

- c) Explain in detail about random forest trees. 4
d) Explain nearest neighbor smoothing. 4

Either

4. a) Write a note on – 4
i) Genetic operator
ii) Baldwin effect
b) Explain the concept of Lamarkian evolution. 4

OR

- c) Write a detail about hypothesis space search. 4
d) Explain in detail the binomial distribution. 4

5. Attempt all the questions. 4
a) Write a short note on VC dimension. 2
b) Explain in brief linear regression. 2
c) What is stacking? 2
d) Explain estimators in short. 2
