

CSE 404: Artificial Intelligence Lab
Tutorial Exam 2020
Full marks: 20

Maximum Allowable Time:

30 mins for Writing + 10 mins for Scanning & Uploading in the Classroom

There are 5 (five) questions. Answer Any 4 (four) questions.

1.	How backtracking can be done in PROLOG? Explain with an example.	5
2.	Write PROLOG code for the following expression: $y = f(x) = \begin{cases} 10, & \text{if } x \leq 5 \\ 20, & \text{if } 5 < x \leq 10 \\ 30, & \text{if } x > 10 \end{cases}$	5
3.	Explain the terms weak AI, strong AI, heuristics, and meta-heuristics. You have to show an example of each term.	5
4.	Describe the reasons behind using A* search in game problems.	5
5.	Differentiate among BFS, DFS, and Best First Search with an example.	5