CSC872 Pattern Analysis and Machine Intelligence, Spring 2024

HW #1: (Due in One Week on 2/20) Lectures 1 - 3

Total of 100 pts (10% of the total course credit)

Name:_	
SID#:	

- 1. What are three key concepts for the PAMI framework? (10pt)
- 2. List four basic components of an artificial intelligence-based agent. (10pt)
- 3. A rational agent is an example of... (10pt)
 - 1) Thinking humanly
 - 2) Thinking rationally
 - 3) Acting humanly
 - 4) Acting rationally
- 4. You are a play of Backgammon game. Consider yourself as a rational agent. Describe the environment types of this agent. (10pt)
- 5. What is toy problem? Why should we use it? (20pt)
- 6. Consider using A^* search to find the best way to travel from Arad to Bucharest using the below map and line heuristic. List the correct-ordered and complete sequence of cities to be evaluated and their corresponding evaluation function values f(n). (40pt)

