Course:	Artificial Intelligence	Course Code:	AI-2002
Program:	BS(Computer Science)	Semester:	Spring 2023
Duration:	30 Minutes	Total Marks:	10
Paper Date:	14-Feb-23	Weight	3.33 %
Section:	C/D	Page(s):	2
Exam:	Quiz 1A	Roll No.	

Instruction/Notes:

- There are 2 questions. Each question carries 5 marks.

- Provide your solution on this sheet. You may use an extra page for rough work.

Arad	366
Bucharest	0
Craiova	160
Drobeta	242
Eforie	161
Fagaras	176
Giurgiu	77
Hirsova	151
Iasi	226
Lugoj	244
Mehadia	241
Neamt	234
Oradea	380
Pitesti	100
Rimnicu Vilcea	193
Sibiu	253
Timisoara	329
Urziceni	80
Vaslui	199
Zerind	374
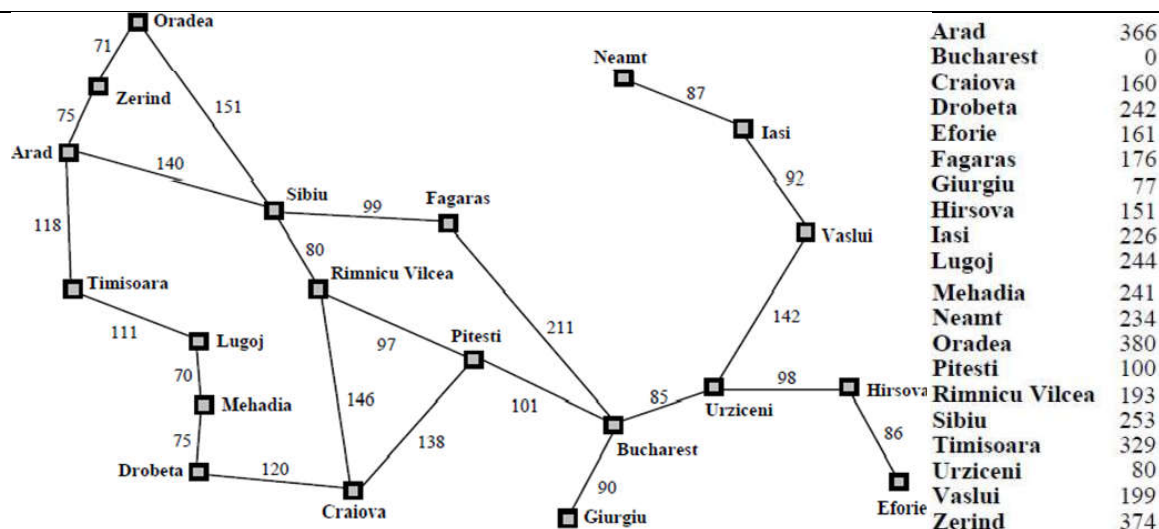
Problem#1 (CLO-2)

Using UCS algorithm search for Bucharest starting from Arad. Your solution should contain the order of traversed nodes, path, and path cost.

Order of traversed nodes: A Z T S O R L F M P C D

or

A Z T S O R L F S M P C D F B (if repeated nodes are checked)

Path: A-S-R-P-B, Cost: 418

Problem#2(CLO-2)

Using the Greedy BFS algorithm search for Vaslui starting from Arad. Your solution should contain the order of traversed nodes, path, and path cost.

Stuck at Glurgiu

Path: A-S-F-B-G-B-G........