National University of Computer and Emerging Sciences, Lahore Campus
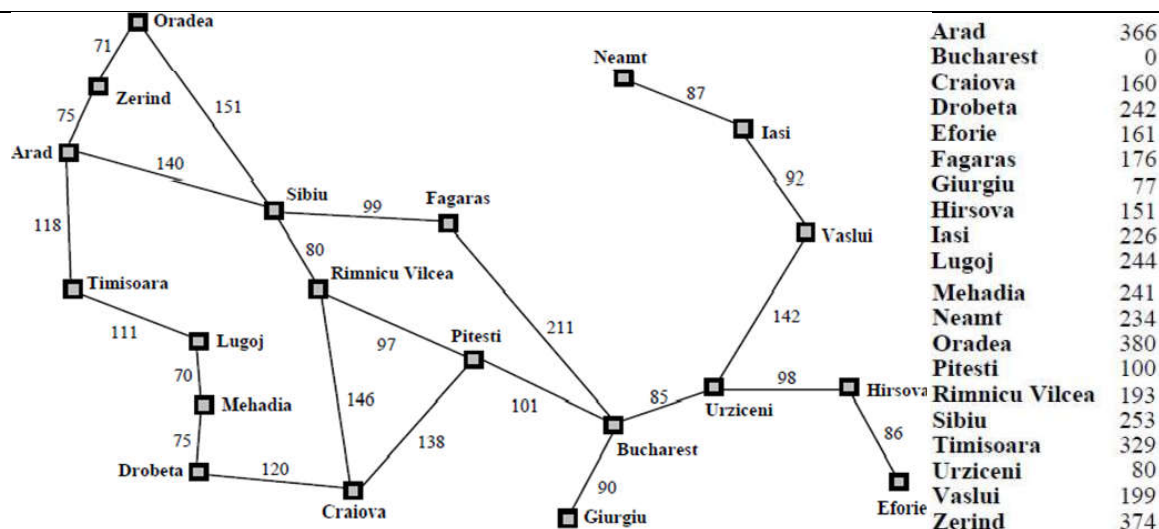
Course:	Artificial Intelligence		Course Code:	AI-2002
Program:	BS(Computer Science)		Semester:	Spring 2023
Duration:	30 Minutes		Total Marks:	10
Paper Date:	14-Feb-23		Weight	3.33 %
Section:	C/D		Page(s):	1
Exam:	Quiz 1B		Roll No.	

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.

Problem#1 (CLO-2)

Using DLS algorithm [depth=5] search for Bucharest starting from Arad. Your solution should contain the order of traversed nodes, path, and path cost.

Order of traversed nodes: A T L M D C P B
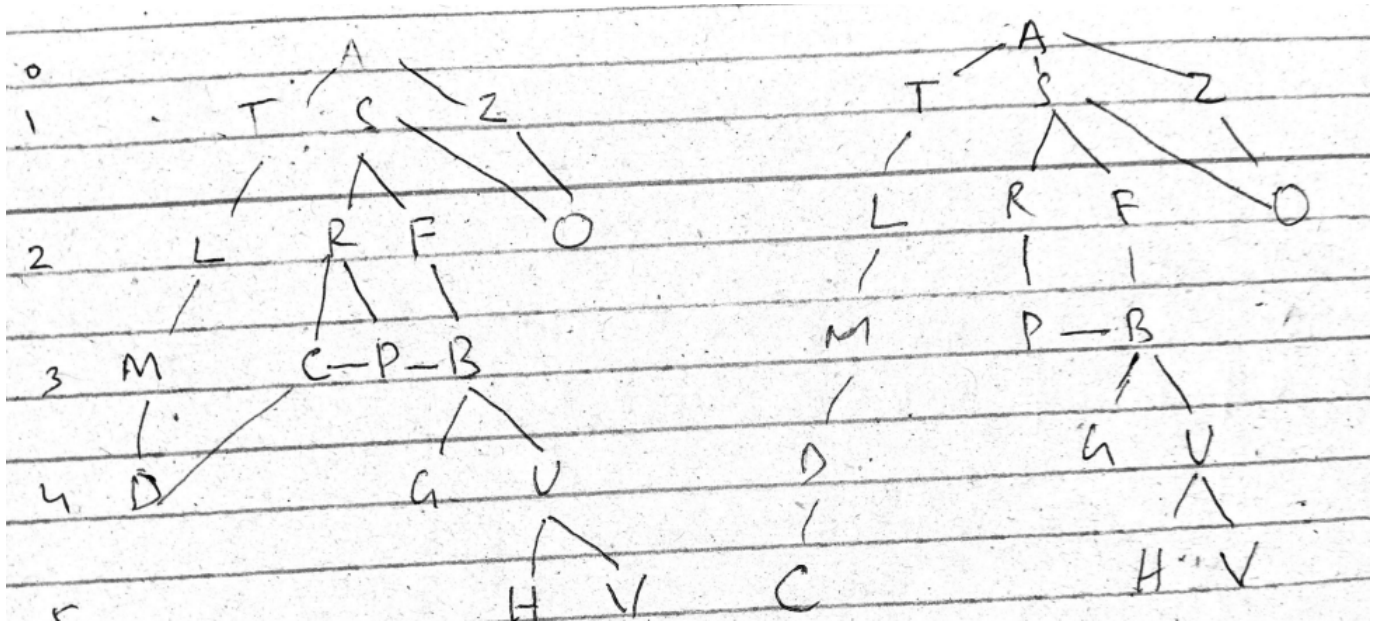
Path: A T L M D C P B, Path cost: 733

OR

Order of traversed nodes: A T L M D C S R P B

Path: A S R P B, Path cost: 418

OR

Order of traversed nodes: A Z O S F B

Path: A S F B, Path cost: 450

Problem#2(CLO-2)

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

Stuck at Bucharest

Path: A-S-F-B-G, Cost :540