BRAC UNIVERSITY
Department of Computer Science and Engineering
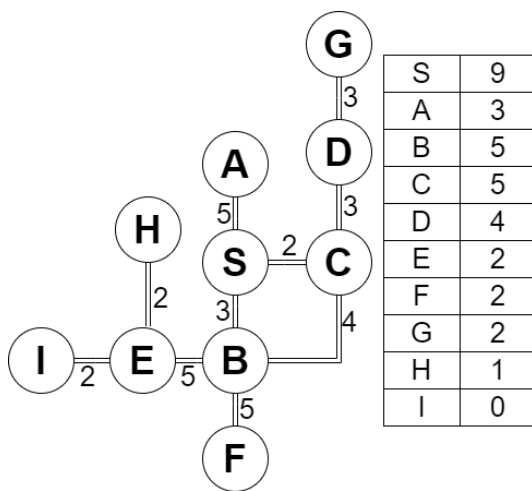
Examination: Quiz   Semester: Fall 2023
Duration: 20 minutes   Full Marks: 10

CSE 422: Artificial Intelligence

Name:	ID:	Section:

Question 1 (CO1)

S	9
A	3
B	5
C	5
D	4
E	2
F	2
G	2
H	1
I	0

Considering S as the start node and I as the goal node, **apply** A* search on the graph given above. **Show** full simulation and path calculation. [7]
Consider the following criteria:
-When pushing nodes, push in alphabetical order
-In case of a tie during popping, follow FCFS approach
-This is a custom graph A* search and a node only get pushed a second time if previous version of the node had higher f-cost

Question 2 (CO1)
Create a tree/graph with at least three nodes where the heuristic is consistent. [3]