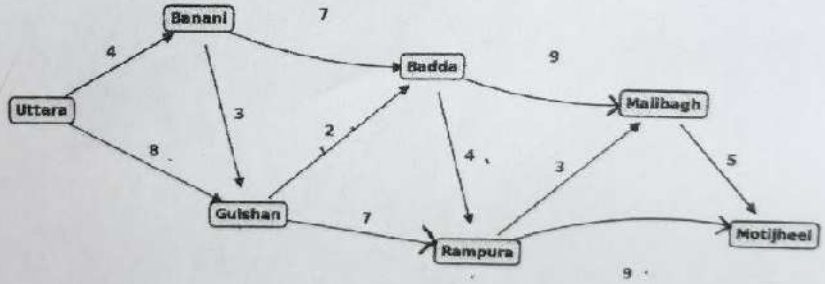
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Daffodil International
University Faculty of Science &
Information Technology
Department of Software Engineering
Quiz-1, Summer-2026
Course Code: SE 333; Course: Artificial Intelligence,
Teacher: NAJ

Time: 30 minutes Marks: 15

Set-A

Consider the directed graph below showing the city delivery network in Dhaka. Each edge shows the distance between two locations and each node has a heuristic h(n) estimating the remaining distance to the goal. Using the **A* Search Algorithm**, find the shortest path from **Uttara** to **Malibagh**; show the open list and f = g + h at each step, then state the final path and its total cost.



h(n) values:

Node	Uttara	Banani	Gulshan	Badda	Rampura	Malibagh	Motijheel
h(n)	20	16	13	11	7	4	0