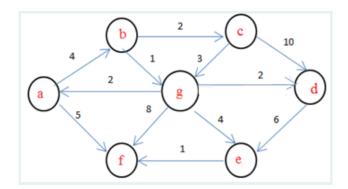
DM Quiz 4 (SE COMP-I (2020-21))

| * | Required |
|---|---|
| * | This form will record your name, please fill your name. |
| | |
| | 1 |
| | Roll Number * |
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| | |
| | 2 |
| | Name * |
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| | 3 |
| | Class * |
| | SE Shift 1 |
| | SE Shift 2 |



Consider the following graph.

If b is the source vertex, what is the minimum cost to reach f vertex? *

(5 Points)

- 0 8
- 9
- O 4
- 0 6

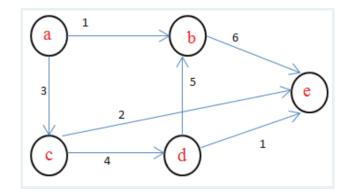
5

Dijkstra's Algorithm is used to solve _____ problems. * (2 Points)

- All pair shortest path
- Single source shortest path
- O Network flow
- Osorting

Must have no loops or multiple edges

Must have no multiple edges



In the given graph:

Identify the shortest path having minimum cost to reach vertex E if A is the source vertex *
(5 Points)

| | \ | | | | |
|---|---|----|----|----|---|
| (|) | a- | ٠h | -6 | ٥ |

- a-c-e
- a-c-d-e
- a-c-d-b-e

10

Which of the following is true? * (2 Points)

- A graph may contain no edges and many vertices
- A graph may contain many edges and no vertices
- A graph may contain no edges and no vertices
- A graph may contain no vertices and many edges

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