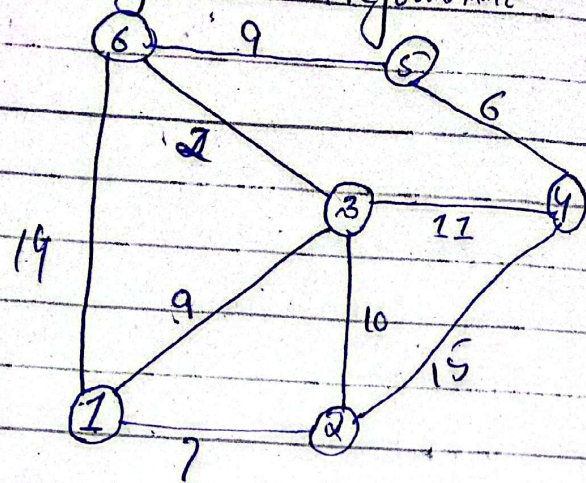
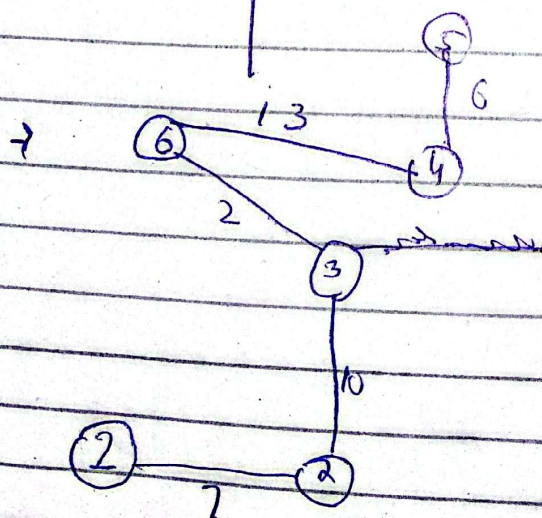


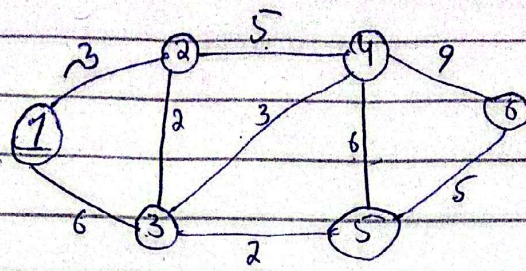
→ Graph Theory Mid term practice
Topic: Dijkstra's Algorithm



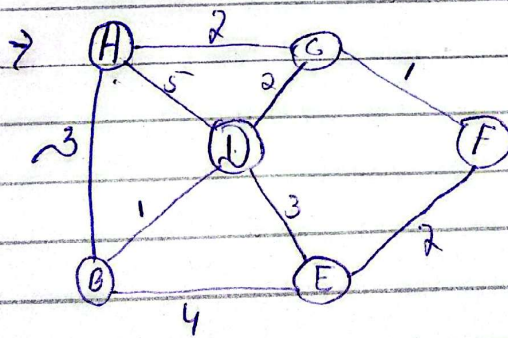
| Source | Dest | 2 | 3 | 4 | 5 | 6 |
|------------------|------|----------|----------|--------------------------------|--------------------------------|---------------|
| 1 | | ∞ | ∞ | ∞ | ∞ | ∞ |
| | (1) | 7 | 9 | ∞ | ∞ | 14 |
| 1, 2 | (1) | (7) | (9) | 20 | ∞ | 14 |
| 1, 2, 3 | (1) | (7) | (9) | 20 | ∞ | (11) |
| 1, 2, 3, 6 | 7 | 9 | (20) | 20 | (11) | |
| 1, 2, 3, 6, 4 | 7 | 9 | 20 | 20 | 11 | |
| 1, 2, 3, 6, 4, 5 | 7 | 9 | 20 | 20 | 11 | |



7



| Source | Des. | | | | |
|------------------|----------|----------|----------|----------|----------|
| 1 | 2 | (3) | 4 | 5 | 6 |
| | ∞ | ∞ | ∞ | ∞ | ∞ |
| | (2) | 6 | ∞ | ∞ | ∞ |
| 1, 2 | (3) | (5) | 5 | ∞ | ∞ |
| 1, 2, 3 | 3 | 5 | (8) | 8 | ∞ |
| 1, 2, 3, 4, 5 | 3 | 5 | 8 | 8 | 13 |
| 1, 2, 3, 4, 5, 6 | | | | | |



| s | D | | | | |
|------------------|----------|----------|----------|----------|----------|
| A | B | C | D | E | F |
| 0 | ∞ | ∞ | ∞ | ∞ | ∞ |
| A, C | 3 | (2) | 5 | ∞ | ∞ |
| A, C, F | 3 | 2 | 4 | ∞ | (1) |
| | (3) | (2) | 4 | 5 | (1) |
| A, C, F, B | 3 | 2 | (4) | 5 | 1 |
| A, C, F, B, D | 3 | 2 | 4 | (5) | 1 |
| A, C, F, B, D, E | | | | | |