**Quiz 3 Algorithm Section B – FALL 2016**

Q 1: Assume that you want to go to from FAST to railway station and it will take following amount of time on a particular route. FAST to kalma chowk takes 10 minutes, FAST to canal road takes 4 minutes, Kalma chowk to Mall road takes 6 minutes, Canal to Mall rd takes 7, Mall to station in 5 minutes, Canal to station via scheme more takes 14 minutes.

1. How can you represent this as a graph? (3)
2. What is the shortest path from FAST to railway station? Show the path clearly and total minutes taken by you path. (3)
3. Which algorithm will you use for this calculation? (1) Bonus

Q 2: What is the space requirements of adjacency list? Write in terms of V and E.

Q 3: What is the space requirements of adjacency matrix? Write in terms of V and E.

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