

INSTRUCTION:

Answer ALL questions.

Question 1 (CLO2, C3)

Illustrate a suitable graph for the graph terminology below

- i) A multigraph
- ii) A pseudograph
- iii) A directed graph
- iv) A weight graph
- v) A connected graph

[5 marks]

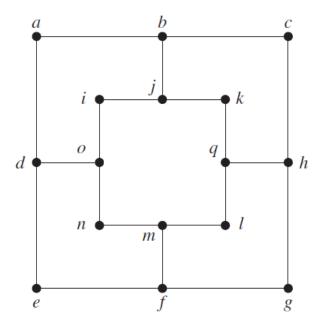
Question 2 (CLO2, C1)

Draw the following graph.

I)	A linear graph of L ₇ .	[1 mark]
ii)	A complete graph of K ₅	[1 mark]
iii)	A complete bipartite graph of K ₄ , ₃	[2 mark]
iv)	A discrete graph of D ₄	[1 mark]

Question 3 (CLO2, C1)

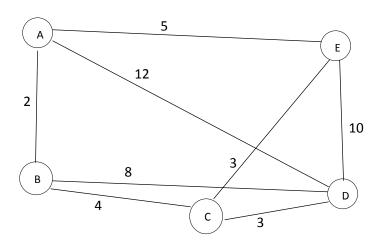
Identify either the graph below has an Hamilton path or not? Justify your answer and construct a path.



[4 marks]

Question 4 (CLO2, C3)

Syukree want to do the sales for her products. She has to visit each one of the cities starting from A and returning to the same city. Find the minimum distance (km) Syukree have to travel between all pairs of cities.



[6 marks]