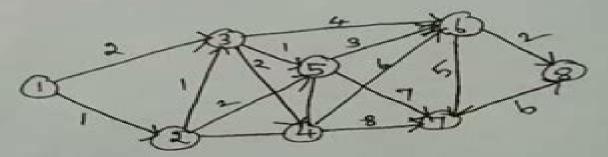
PART B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

11. (a) Write down the minimal spanning tree algorithm.

Or

(b) Use Dijkstra's algorithm to determine the optimal solution of the following problem.



12. (a) Determine all basic feasible solution of the following system of equations $\begin{pmatrix} 2 & 4 \\ 1 & 3 \end{pmatrix} \begin{pmatrix} x_1 \\ x_2 \end{pmatrix} = \begin{pmatrix} -4 \\ -2 \end{pmatrix}$.

Or

e of game (-5)

(b) Determine the strategies that define the saddle point and the value of the game.

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