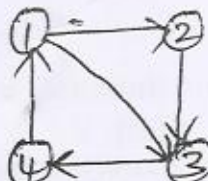
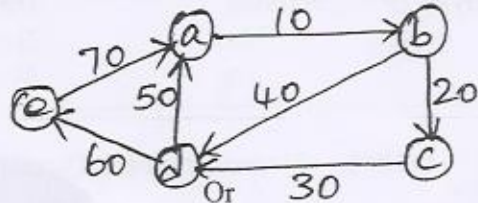




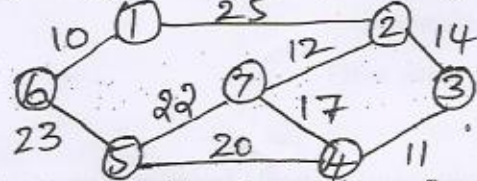
M-3  
122



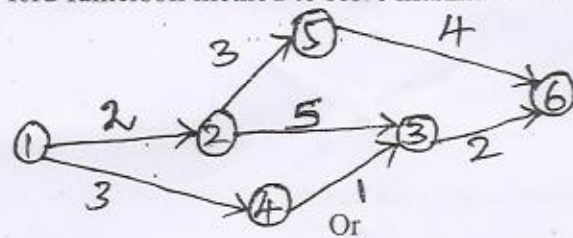
ii) Explain Floyd's algorithm using following graph. (8)



(b) (i) Define minimum spanning tree and explain prim's algorithm for the following graph. (16)



14. a) Explain the ford-fulkerson method to solve maximum flow problem for the given network graph. (16)



b) Explain the stable marriage problem algorithm for the given example. (16)

	Harley	veda	Ilana	Joy
Paul	4,3	3,2	2,3	1,3
Rock	2,2	3,4	4,1	1,4
Unwin	4,1	3,3	1,4	2,2
David	1,4	3,1	2,2	4,1

15. a) Write an algorithm for implementing a backtracking algorithm for N-Queens problems and Hamiltonian problems (16)

Or

(b) (i) Solve the following instance of the knapsack poroblem by branch and bound algorithm. (8)

Item	weight	profit
1	10	100
2	7	63
3	8	56
4	4	12

W=16.

(ii) Solve the traveling salesman problem using the branch and bound algorithm. (8)

