Rupido, Baby Angel E.

Graph 29

FORMAL DESCRIPTION:

$G_{29} = \{ V_{29}, E_{29} \}$

$V_{29} = \{A, B, C, D, E, F, G, I, J, K, L, M, N, O, P\}$

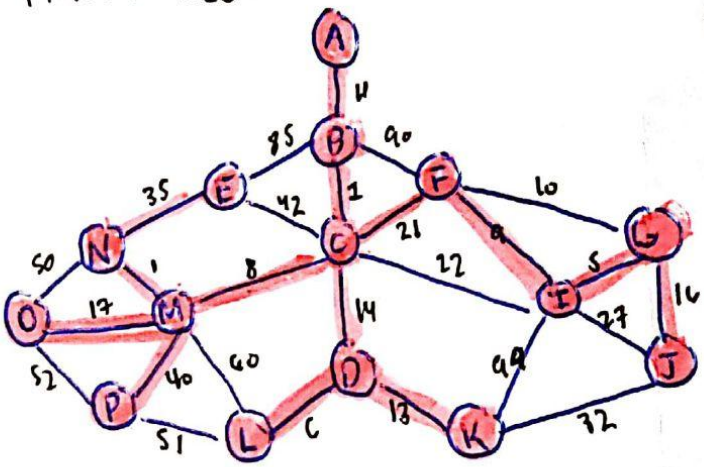
$E_{29} = \{(A,B), (B,E), (B,C), (B,F), (C,E), (C,F), (C,M), (C,I), (C,D), (D,L), (D,K), (E,N), (F,I), (F,G), (G,I), (G,J), (I,K), (J,K), (L,M), (L,P), (M,P), (M,O), (N,M), (N,O), (L,O)\}$

KRUSKAL'S ALGO

	EDGE	WEIGHT	
	(B,C)	1	
	(N,M)	1	
	(G,I)	5	
	(D,L)	6	
	(C,M)	8	
	(F,I)	9	
X	(F,G)	10	X
	(A,B)	11	
	(A,K)	13	
	(C,D)	14	
	(G,J)	16	
	(M,O)	17	
	(C,F)	21	
X	(C,I)	22	X
X	(J,K)	32	X
	(E,N)	35	
	(M,P)	40	
X	(C,E)	42	X
X	(N,O)	50	X
X	(P,L)	51	X
X	(O,P)	52	X
X	(M,L)	60	X
X	(E,B)	85	X
X	(B,F)	90	X
X	(I,K)	99	X
X	(I,J)	27	X

COST OF MINIMUM SPANNING TREE = 197

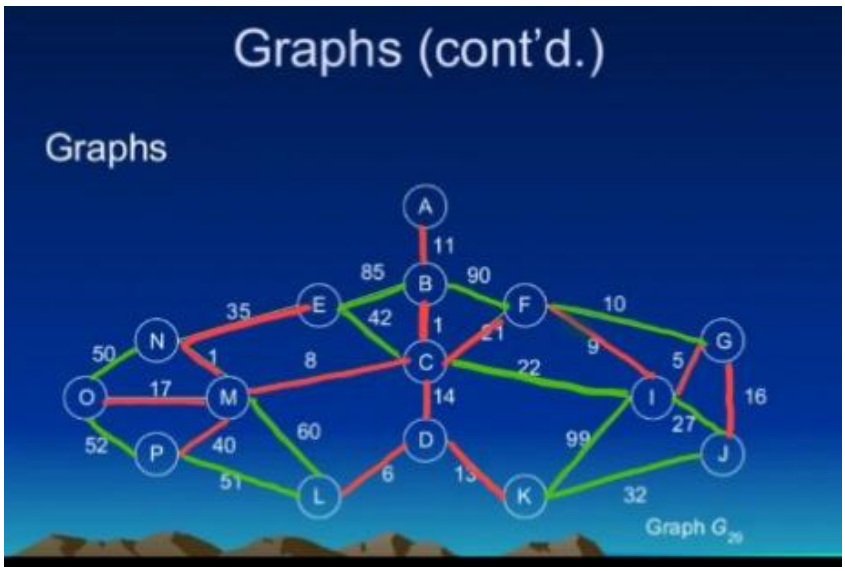
PRIM'S ALGO



11 + 1 + 21 + 9 + 5 + 16 + 8 + 14 + 13 + 6 + 35 + 1 + 17 + 40 = 197

∴ KRUSKAL'S ALGO is equals to PRIM'S ALGO

KRUSKAL


Graphs (cont'd.)
Graphs
A
B
C
D
E
F
G
I
J
K
L
M
N
O
P
11
85
90
35
42
1
21
10
9
5
50
1
8
22
17
14
16
27
52
40
60
99
51
6
32
Graph G_{29}