

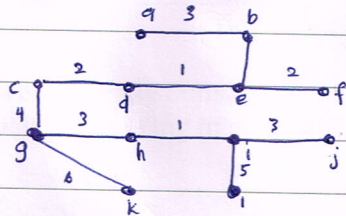
Flow
#1060

(13)

Question 1

a) $12 - 1 = 11$ edges to remain

Edge	jl	kl	lk	gk	bf	il	fj	dh	ac	ei	cg	ad	be	ji	gh	qb	ef	cd	hi	de
Weight	9	8	7	6	6	5	5	5	5	4	4	4	3	3	3	3	2	2	1	1
Delete	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No

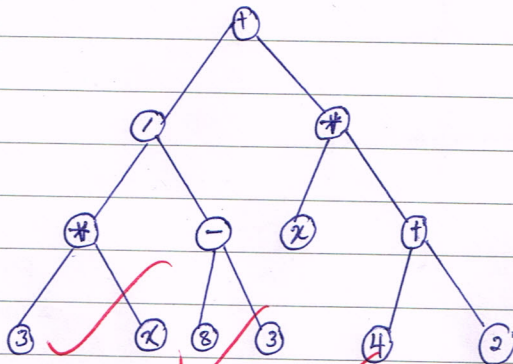


6

b) $6 + 5 + 4 + 3 + 3 + 3 + 3 + 2 + 2 + 1 + 1 = 33$

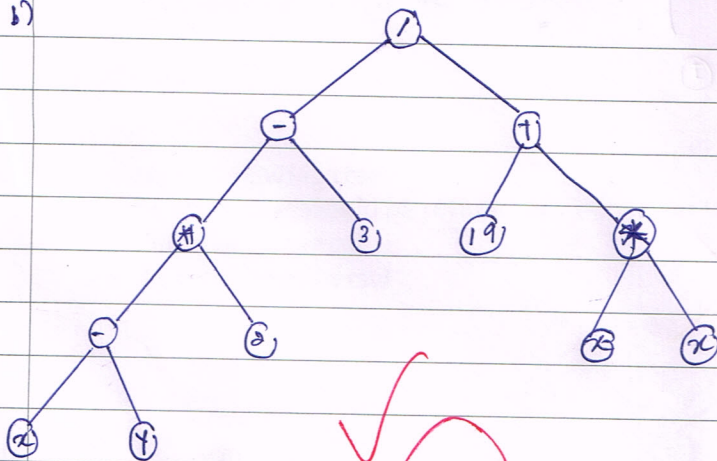
Question 2

a)



3

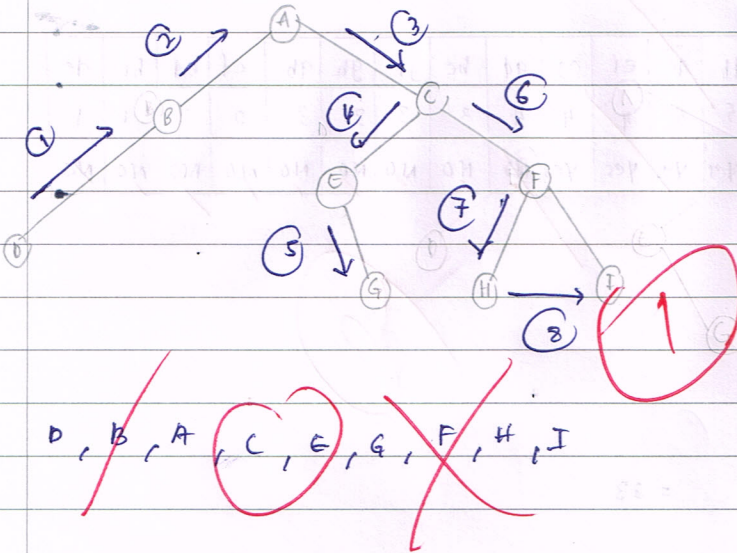
b)



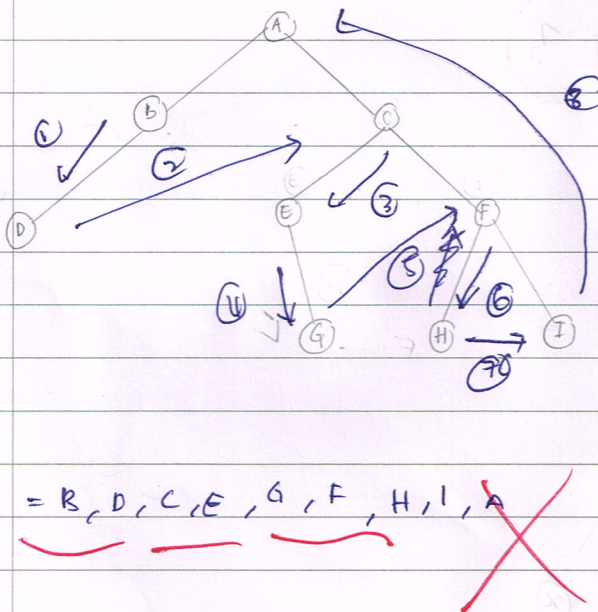
3

Question 3

a) In-order traversal



b) Post-order traversal

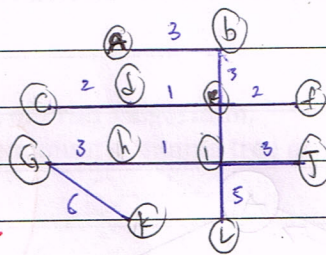


Question 1

g)

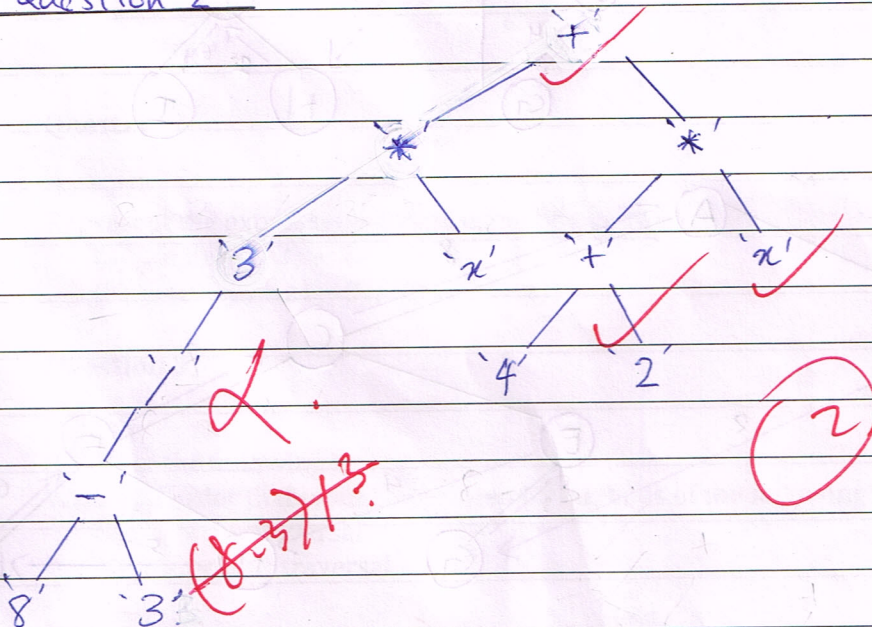
Edges	JL	KL	HK	BT	GK	AC	DH	FJ	IL	AD	CG
Weight	9	8	7	6	6	5	5	5	5	4	4
Delete	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES

Edges	EI	AB	BE	GH	TJ	CD	EF	DE	HI
Weight	4	3	3	3	3	2	2	1	1
Delete	NO	NO	NO	NO	NO	NO	NO	NO	NO

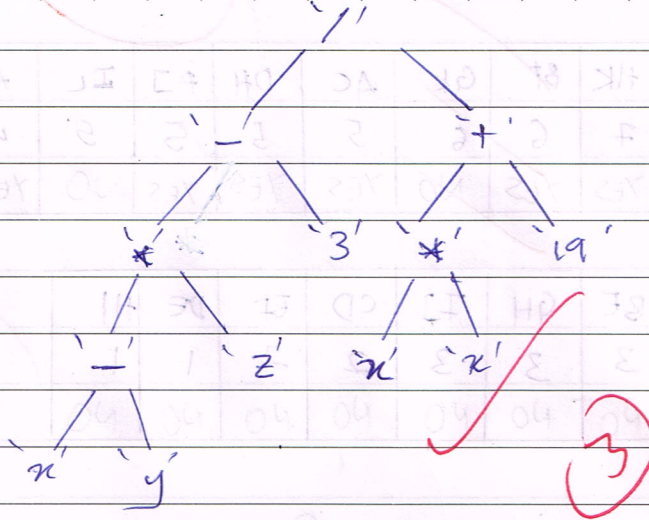


Minimum weight = 33

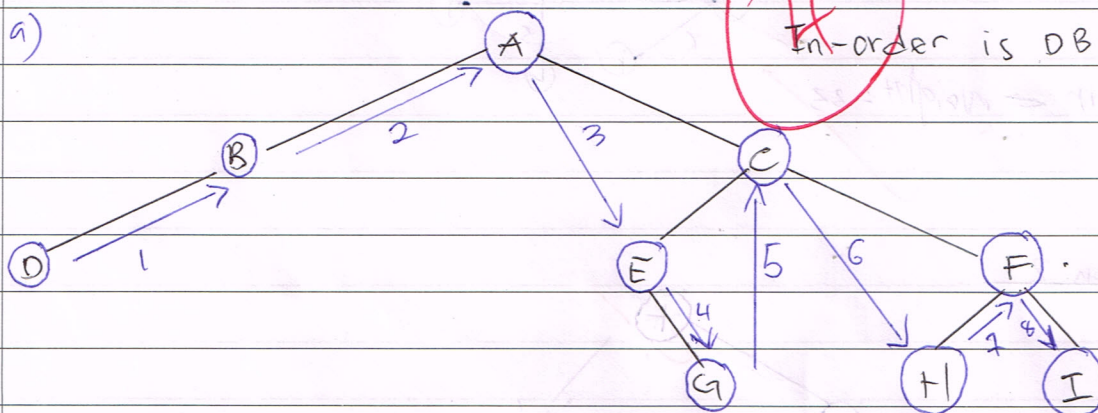
Question 2



(b)

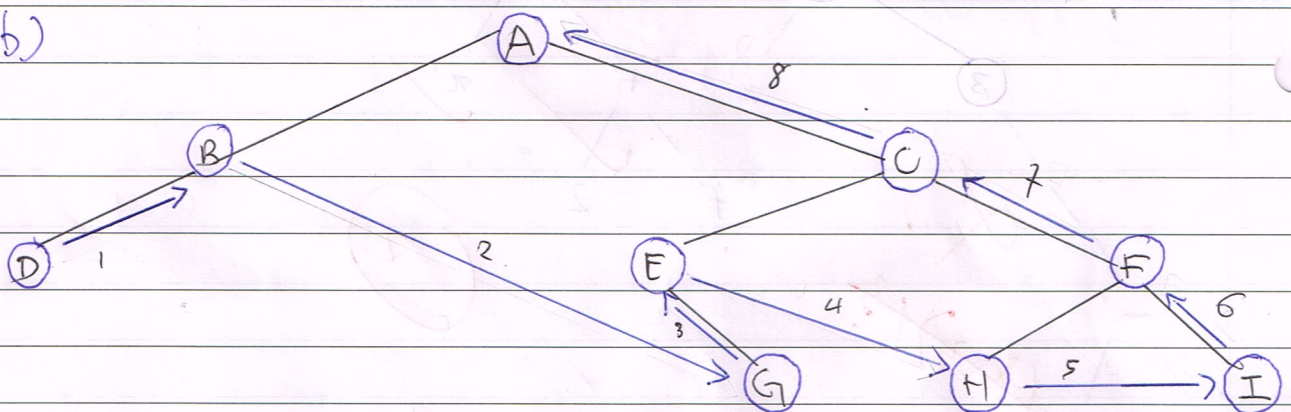
Question 3

a)



In-order is DBAEGCHFI

b)



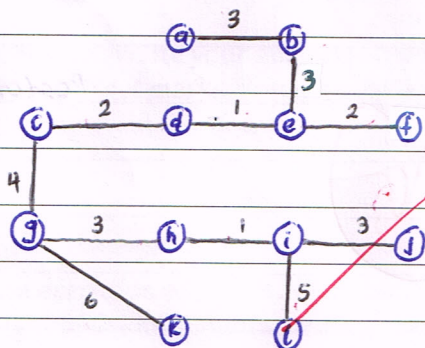
Post-order Traversal is DBGEHIFCA

F1125
F1001

Question 1

12 vertices - 1 = 11 edges remained

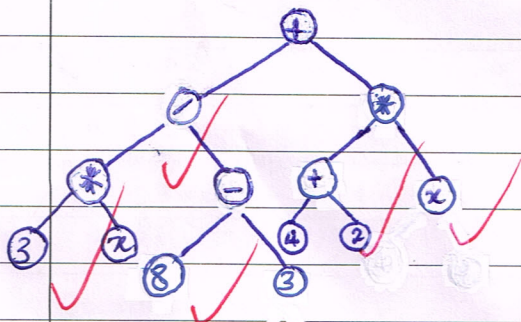
Edges	lj	kl	hk	gk	bf	il	ah	ac	fj	ei	ad	cg	qb	be	gh	ij	cd	ef	de	hi
Weight	9	8	7	6	6	5	5	5	5	4	4	4	3	3	3	3	2	2	1	1
Delete	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No



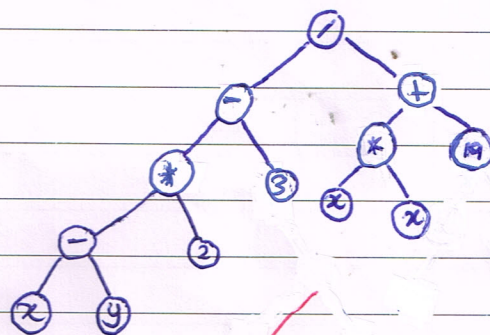
Total weight of the minimum spanning tree = $3 + 2 + 1 + 2 + 4 + 3 + 1 + 3 + 5 + 6 + 3$
 $= 33$

Question 2

(a) $3 * x / (8 - 3) + x * (4 + 2)$

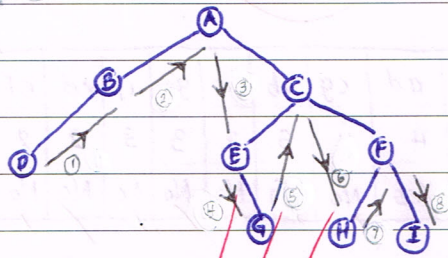


(b) $((x - y) * z) - 3 / 19 + (x * x)$



Question 3

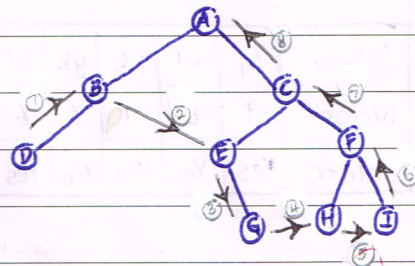
(a) In-order traversal



Inorder is DBAEGCHF I

~~15~~

(b) Post-order traversal



Postorder is DBEGHIFCA

~~3~~

Liew Yi Hong / Nurul Ibtisam

DDT2A

Tutorial 4

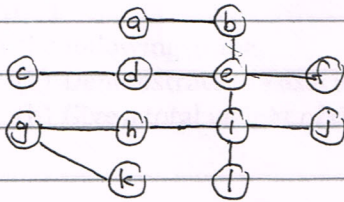
Flood #1142

① Prim's Alg

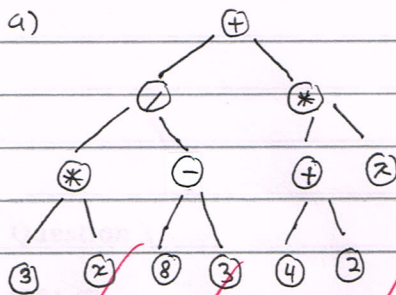
$12 - 1 = 11$

edge	ij	hk	kl	bf	gk	cq	df	fj	il	ad	cg	ei	ab	be	gh	ij	cd	ef	de	hi
weight	9	7	8	6	6	5	5	5	5	4	4	4	3	3	3	3	2	2	1	1
delete	Y	Y	Y	Y	N	Y	Y	Y	N	Y	Y	N	N	N	N	N	N	N	N	N

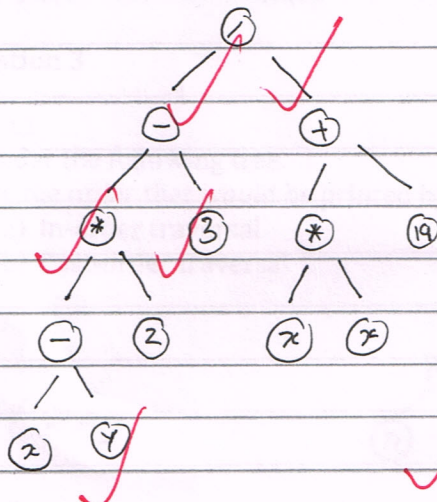
Total weight = 33



② a)



b)



③ a) In-order traversal (left, root, right)

= D, B, A, E, G, C, H, F, I

b) Post-order traversal (left / right / root)

= D, B, G, E, H, I, F, C, A