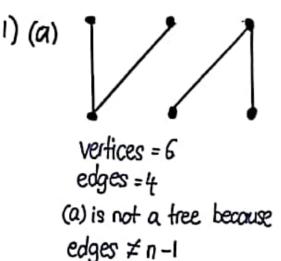
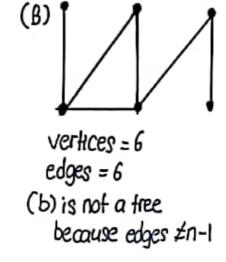
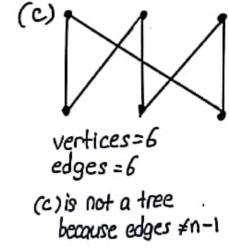
ASSIGNMENT 4

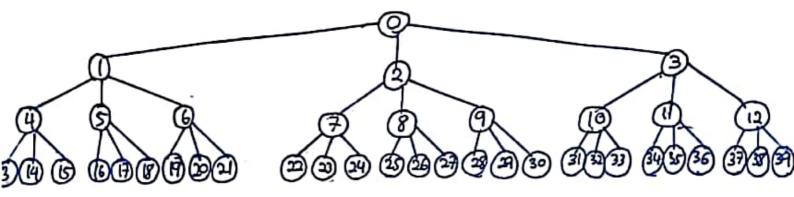
NUREEN FATINI BINTI ZULKEFLI A24CSO169

DASNEEM BANU BINTI HAJA A24CSOO66









a) a

b) a, b, f, c, h, d, j, q, t

c) e, l, m, n, g, o, p, i, k, r, s, u

d) 9, r

e)c

f)p

g) a, b, f

h) 2, m, n, e, f

() $i = \frac{n-1}{m}$

 $\cos = \frac{n-1}{5}$

500 = n - 1

1=501

8.

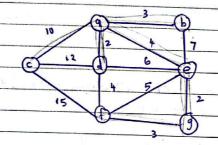
ASSIGNMENT 4

Will the second					-				
_7	How many leaves does a	full	4-ary	tree	with	1000	vertices	have?	,

i=(n-1)/m	= [(m-1)n+1]/m
= (1000-1)/4	= [[4-1] 1000 + 1] /4
= 999 / 4	= [(3)1000 + 1] / 4
= 249.75	= [3000+17]/4
- 250	300041]/4

750.25

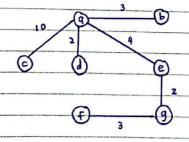
= 750 leaves



= 250 internal vertices

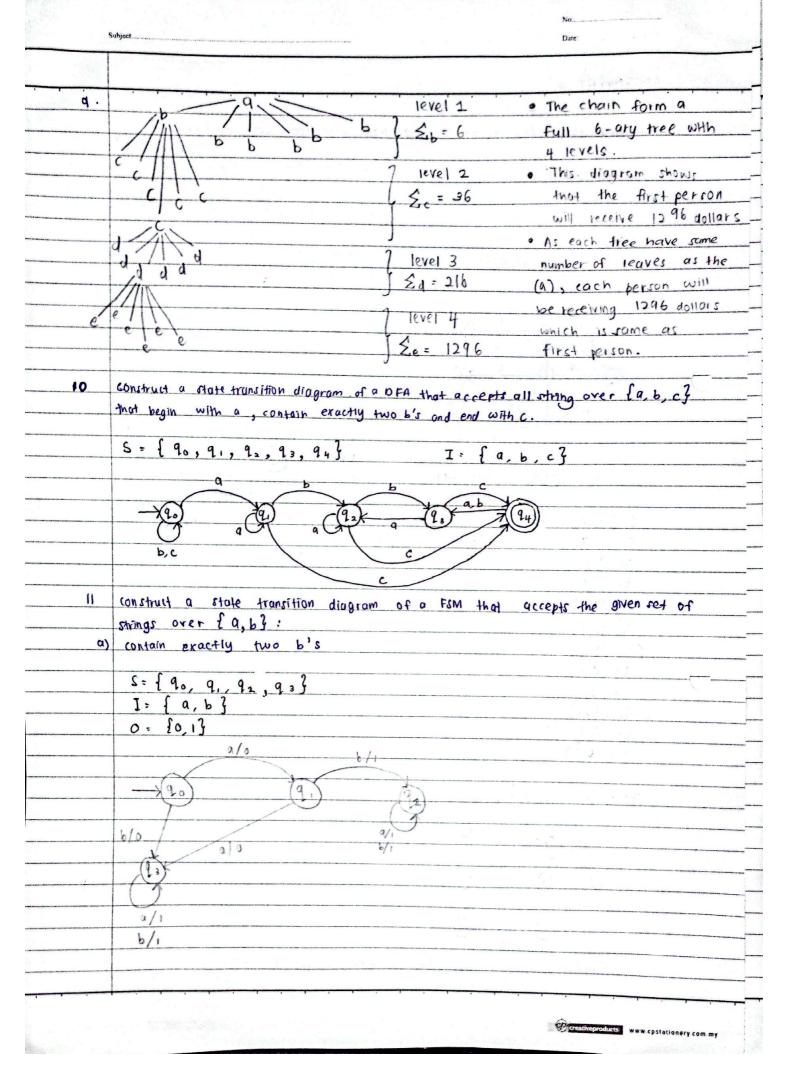
Edge Weight will adding Cumulative weight Action edgemake circuit? token of subgraph e: (a,d) 2 NO Added e2 (e,g) 2 NO Added 4 e3 (a,b) 3 NO Aded 7 24(f,g) 3 NO Added 10 es (9,e) NO Added 11 26 (d,f) Yes Mos Added 14 6- (6,4) Tes Not added 14 eg (d,e) 6 2.98 Not Added 14 7 eq (b, e) Yes Not added 14 e10 (a, c) 10 04 Added 24 12 en (cd) Y25 Not Added 24 C12 (c,f) 15 Yes Not Added 24

the minimum spanning tree is drawn below



The minimum spanning tree has a total weight of 24.

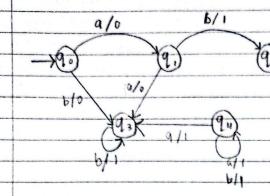
01



No

Subject ...

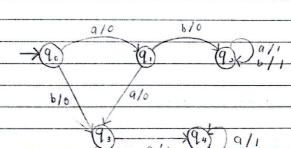
11 b) at least one b.



5: {q0, q1, q2, q2, q4}

0. 10, 13

iie) odd number of a's.



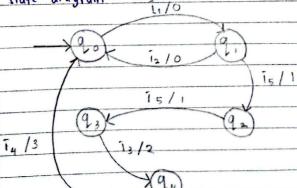
6/1

5- { 90, 91, 92, 93, 94} I: {a, b, c}

(2 a)

1		fs				fo						
-		٦,	1,	Ĩ,	1 4	Îs	Ĩı.	Îa	13	Ty	Ìs	(transmin)
1	20	9,	_	_	_	-	٥	_	-	-	_	
T	9,	-	20	_	_	92	_	O	-	-	0	-
1	9,	1_	2.	-	-	93	_	0	-	-	1	-
1	9 3	-	-	94	-	-	-	-	2	-	-	-
1	9 4	T -	-	T -	90	_	_	-	-	3	-	-

12 b) state diagram



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