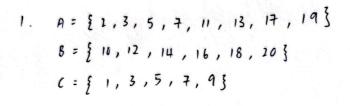
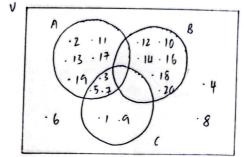
SECI 1013 : DISCRETE STRUCTURE

SEM I ASSIGNENT I (PART I) - (HAPTHER)

AHLI KUMPULAN

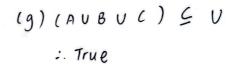
- 1. TAN XIN TIAN (AZ4 (50198)
- 2. ANGELA NGU XIN YI (AZ4(50226)
- 3. (HEONG YI SHIEN (A24 (50058)
- 4 . TECH XIN YEE (A24 (50307)





(c)
$$A - C$$

= $\{2, 11, 13, 17, 19\}$



$$P(A \cap C) = \{3, 5, 7\}$$

= 8

(b)
$$(A \cap B) \cup (A - B) = A$$

: $(A \cap B) \cup (A \cap B')$ Set difference Laws
= $A \cap (B \cup B')$
= $A \cap U$ Complement Laws
= A
: equal

3. (a) $S = \{a,b,c,d,e,f,g\}$ $T = \{h,j,k,l,m,n,p,q\}$ $E = \{p,q,r,s,f,v,w,y,z\}$ (b) $S \times (T \cap E)$ $(T \cap E) = \{p,q\}$ $S \times (T \cap E) = \{(a,p),(b,p),((,p),(d,p),(e,p),(f,p),(g,q),(b,q),(c,q),(d,q),(c,q),(d,q),(c,q),(d,q),(c,q),(d,q),(e,q),(d,q),(e,q),($

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4	(a) TRUE (b) TRUE	
5.	a. Q = (p^r) v (q v - r), R = (p) P	T T T T T T T T T T T T T T T T T T T
	F F 7 7 F	Q=R

							N					
(b) C	\$ = 0	CP A	r) V -	(p 1	79)	, R-	= (p/	(1) -	> (9)	17)	W.	
P	9	r	79	p179	71	PA74)	PAT	(pr) 17	(p/19)	
 7	T	T	F	_	7	,	Τ	-		,		
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F	F	7	7	F	1	-	F	T				
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- P	9	7	byı	- 4x	r_	par-	→ (q,v)					
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Self at Your Control												

Question 6

a) Domain of discourse is set $D = \{1,3,5,7,8,9\}$ Va D(a)

When x=1, x=3, x=5, x=7 and x=9, the statement produce a false value. Thus, the above statement is false and the counterexample is 1,3,5,7 and 9.

b) Domain of discourse is set $D = \{1,3,5,7,8,9\}$ VxD(x)

When x > 1, x = 3, x = 5, x = 7, x = 8 and x = 9, the statement produce a false value.

Thus, the above statement is false and the counterexample is 1.3,5,7,8 and 9.

Question 7.

Let a = all student of faculty

Let P(2) = " x can speak Arabic"

Let Q(x) = "x knows computer language C++"

Quantifier = Existential quantifier

Logic connective = 1

Existentially quantified statement: Some student at faculty can speak Arabic and knows computer language C+t, \(\frac{1}{2}\text{L}(P(x)\Lambda(x)).

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8	a = 2n+1			
	$a^2 - 3a = (2n+1)^2 - 3(2n+1)$			
	= 4n'+4n +1 - 6n -3			
	$=4n^{2}-2n-2$			
	$= 2(2n^2 - n - 1)$ $= 2m \Rightarrow \text{ an integer}$			
	# 2 times an integer, so for all int	egers, if a is odd	I then a^2-3a is ev	ien.
9.	Suppose n° is an odd integer and is Then n° is an odd integer and n is	n is not odd. ((p,~q)	
	Then n' is an odd integer and n is	s even.	•	
	n = 2a		2	
	$n^2 = (2a)^2$			
	= 4a2			
	$n = 2(2a^2) (even)$			
	tan integer			
	# Thus, the statement is true.	and the second s		
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