	NO: DATE:
	UTM Universiti Teknologi Malaysia
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	Programme: SECPH-Bachelor of Computer Science (Data Engineering) with
	Honours
	Semester : 2023/24-1
	Section: Section 02
	Course Name: Discrete Structure
	Couse Code: SEC11013
	Lecturer's Name: Dr. Noorfa Haszlinna Binti Mustaffa
	Assignment Topic: Assignment
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	TAN YI YA AL3CS 0187 Section 1  No.: GE JIE YING AL3CS 0224  Date:
	Assignment 1
1.	(a) (i) F: The students that using Facebook
7	I: The students that using Instagram
	(30 5)10) X The students that using Twitter.
3011	a gentleman La response to the Company - 2 of the about some
	(i) 150-25-20-20-15-5-5-30=30 : (FUIUX)'= 30 students
	(iii) 15+20+5=40 : (FNINX)'N((FNI) U (FNX) U (XNI)) = 40 students
	(iv) 30+5+20=55 : (IUX) n F' = 55 students
1	(b) $A = \{3, 5, 7, 9\}$ ; $B = \{2, 3, 5, 7\}$ ; $C = \{3, 6, 9\}$
	(i) $ A  = 4$ (ii) $ P(A)  = 2^n = 16$
	IBI=4 :- Proper subsets of A=16-1
	161=3
	(iii) C×B={(3,2), (3,3), (3,5), (3,7), (6,2), (6,3), (6,5), (6,7),
	(9,2),(9,3),(9,5),(9,7)}
2.	(a) p q (pvq) ~ (pvq) ~ p ~ p \ q (pvq) V (~ p \ q) : ~ (pvq) V (~ prq)
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	T F T F F F
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	~ (p \q) \ (~ p \q)
	= (~p \(\cap \cap \cap \q)) \rightarrow \(\cap \cap \q) \rightarrow \(\cap \q) \rightarrow \(\cap \q \q) \rightarrow \(\cap \q \q) \rightarrow \(\cap \q) \rightarrow \(\cap \q) \rightarrow \(\cap \q) \rightarrow \(
	$= \sim p \wedge (\sim q \vee q) \rightarrow \text{Distributive laws}$ $= \sim p \wedge 0 \rightarrow \text{Complement laws}$
	= ~p NO > Complement laws
	= ~ p (shown)
	We will be welled at 19
	(b) (i) $(r \land q) \rightarrow p$
	(ii) ¬ (r Vq) → ¬p
	$\equiv 7 \Gamma \Lambda 7 q \rightarrow 7 P$
	(iii) ¬p → ¬(r vq)
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4.700	The first training that the appropriate from the latter than t