

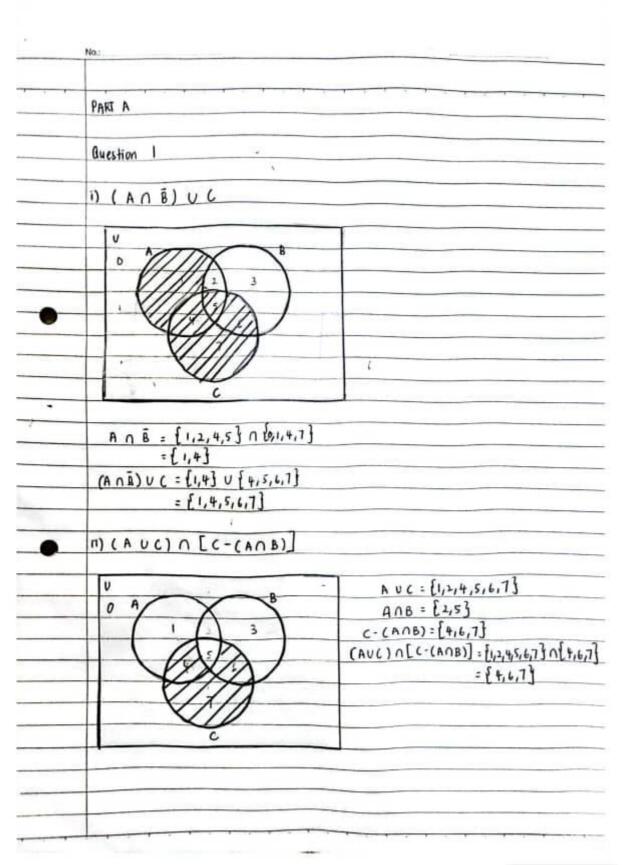
ASSIGNMENT

BUM1233 DISCRETE MATHEMATICS AND APPLICATIONS

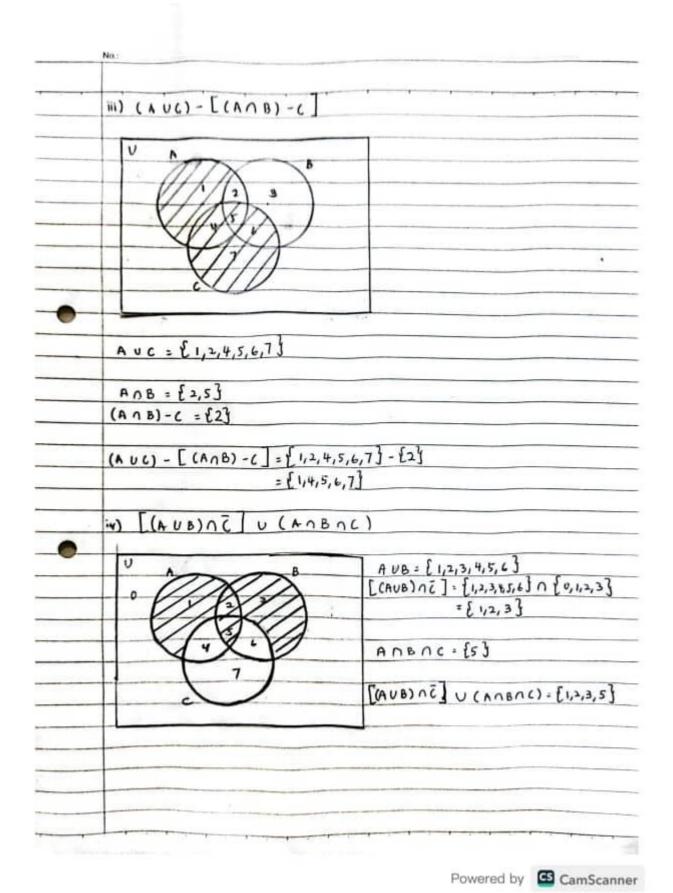
NAME	ID NO.	SECTION
1. MUHAMMAD ARIF BIN AZLAN	CB22085	02P
2. AHMAD IQBAL HAMDI BIN AHMAD FAUZI	CB22113	02P
3. MUHAMMAD AMIRUL AIQAL BIN	CB22046	02P
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4. MUHAMMAD AMIRUL AIMAN BIN ISMAIL	CB22002	02P

LECTURER'S NAME	
MADAM INTAN SABARIAH BINTI SABRI	

Question	FOR EXAMINER USE ONLY
	Marks
	PART A
1	/4
2	/5
3	/21
	PART B
	/30
Total marks	/60



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```
Question 2
1) R1 = \( -1,0,13 \) R2 = \( \xi -2,-1,0,1,23 \)
  R, x Ra
  = { (-1,-2), (-1,1), (-1,0), (-1,1), (-1,2), (0,-2), (0,-1),
       (0.0), (0.1), (0, 2), (1, -1), (1, 0), (1,1), (1,2)}
i) P(R.) = { Ø, {-23, {-13, {03, {13, {23, {-2, -13, {-2,03,
           €-2,13, €-2,23, €-1,03, €-1,13, €-1,23, €0,13, €0,23,
           81,23, 8-2,-1,03, 8-2,-1,13, 8-2,-1,23, 82,0,13,
           8-2,0,23, 8-2,1,23, 8-1,0,13, 8-1,0,2 } [-1,1,2]
           80,1,23, 8-2,-1,0.13, 8-2,-1,0,23, 8-2,-1,1,23
           8-2,0,1,23, 8-1,0,1,23,8-2,-1,0,1,233
A Ci
in R = {-1,0,1}
ies K = {-2,-1,0,1,2}
i=10 Kic = { -10, -. , -1, 0, 1, ... , 10}
    - : 1 R = {-1,0,13
```

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	No:								Date:		
	Question	3 -									
(0,1)			l mille	y In-fhi	week, the	en tod	Q4 7J 0	strong w	mds a	nd heav	y rath
					g wind . t						
					there is a						
					y rain.						
		514000000	100 101								
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(3)	I A ~	P									
4	t.										
					. (1)			(t)		. 3	4
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	7	T	Т	Т	Т	F	E	7	F	F	1
	7	T	F	F	ļ=	F	1	T	F	F	F
	T	£	T	F	F	7	F	F	F	F	7
	7	F	F	F	F	T	T	T	la-	F	F
	F	T	7	Т	(7)	F	۴	(7)	T	(7)	(T)
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	F	F	F	F	7	7	T	T	Ť	F	F
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	No.						T			
	Questio	u 3B								
	Suppose	a y	eterino	rian (claims tha	te				
line I	T.f. gr	anim	al is	cold	blooded	, then	it is	not	a mamm	ale.
line 2	If an	imal	canno	t flu	, then it	ıs	mama ma	mmal	7	
line 3	cot is	s wa	m	Ploode	d and	canno	ot fly			
line 4	As a	501	clusio	n , ca	t is a	mai	mmal.			
	Determi Hruth	ne tr table	ne v	alidity	of the	veter	inarian o	claim	s by v	ising
	line		P ->	~ Q						
	line 2	2: ~	R-	Q						
	line 3	; ; (~ p v	~ (7)						
		; Q								
	₩ P	Q	R	~ Q	P->~Q	n R	nr-Q	~ P	(~P^2)	0
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	T	T	F	F	F	T	T	F	F	T
	T	F	Т	T	T	F	Т	F	F	F
	T	F	F	T	T	T	F	F	F	F
	F	T	T	F	T	F	Т	T	F	T
2	/ F	T	F	F	T	T	T	T	T	I
	F	F	T	T	Т	F	T	T	F	F
	F	F	F	T	T	Т	F	T	T	F
	1	linel								
	Cri	Hical	LOM							
	Ve	terinari	ans	Claim	is vol	d				
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	1								13	1

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