Ting Lik Siong
(COSDDT 17F 2007)

10/10 Good

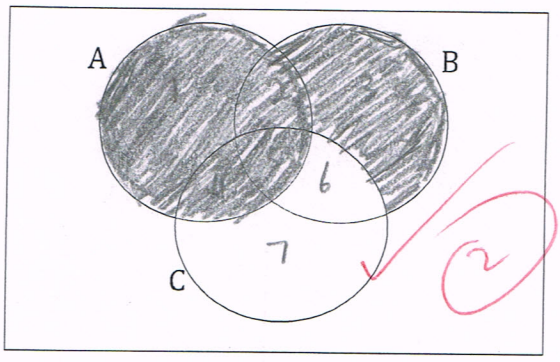
INSTRUCTION:

Answer all the questions. Show your working. It may help you to get marks.

Question 1 (CLO1, C2)

Shade in the set $A \cup (B \cap C')$

[2 marks]



2

$A \cup (B \cap C')$
1 ∪ (2 ∩ 1,5)
2 (3) (2)
4 5 (3)
5 6

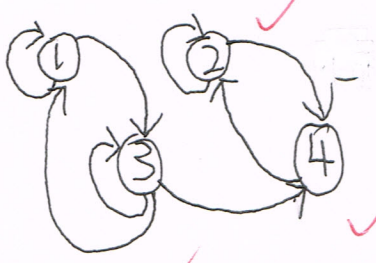
$A \cup (B \cap C')$
1 2,3
2
4
5

Question 2 (CLO1, C2)

(a) Given the relation R = {(1,1), (2, 2), (3, 3), (2, 4), (4, 2), (3, 4), (3,1), (1,3)} on the set A = {1, 2, 3, 4}.

(i) Draw the digraph on the given relation R.

[2 marks]



2

(ii) Determine whether R is reflexive, R is symmetric, and R is transitive. Explain your answers.

[6 marks]

- R is not reflexive because 4 $\not R$ 4.
- R is not symmetric because whenever 3R4, but 4 $\not R$ 3
- R is not transitive because whenever 1R3, 3R4 but 1 $\not R$ 4

6

DANNIELLA MELLINIE
05DDT17F2005
DDT2B-S2

8/10

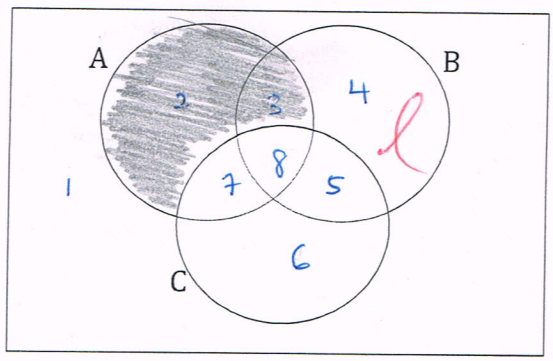
INSTRUCTION:

Answer all the questions. Show your working. It may help you to get marks.

Question 1 (CLO1, C2) ← 'intersect (common)

Shade in the set $A \cup (B \cap C')$

[2 marks]



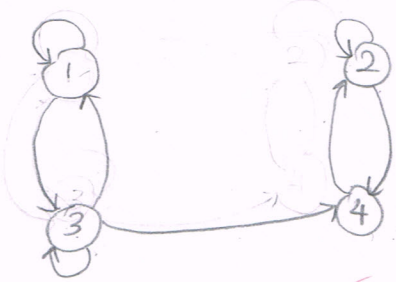
C' = 1, 2, ③, ④
B = ③, ④, 7, 8
B ∩ C' = 3, 4
A = 2, 3, 7, 8
∪ take all = A ∪ (B ∩ C')
Shade = 2, 3, 7, 8, 4

Question 2 (CLO1, C2)

(a) Given the relation R = {(1,1), (2, 2), (3, 3), (2, 4), (4, 2), (3, 4), (3,1), (1,3)} on the set A = {1, 2, 3, 4}.

(i) Draw the digraph on the given relation R.

[2 marks]



✓ 10

(ii) Determine whether R is reflexive, R is symmetric, and R is transitive. Explain your answers.

[6 marks]

1) Reflexive

R is not a reflexive because 1R1, 2R2, 3R3 but 4✗4 ✓ ✓

2) Symmetric

R is not symmetric because 1R3, 3R1, 4R2, 2R4, 3R4 but 4✗3 ✓ ✓

3) Transitive.

R is not a transitive because 1R3, 3R4, but 1✗4

4

Isna Ayu Natasha

05DDT17F2015

DDT2B /S2

30/8/18.

9/60

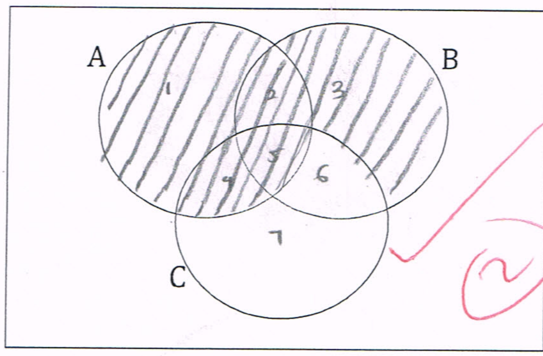
INSTRUCTION:

Answer all the questions. Show your working. It may help you to get marks.

Question 1 (CLO1, C2)

Shade in the set $A \cup (B \cap C')$

[2 marks]



$A \cup (B \cap C')$

$B \cap C' = \{2, 3, 5, 6\} \cap \{1, 2, 3\}$.

$B \cap C' = \{2, 3\}$.

$A \cup (B \cap C') =$

$\{1, 2, 4, 5\} \cup \{2, 3\}$

$= 1, 2, 3, 4, 5$.

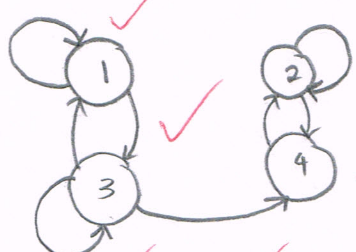
2

Question 2 (CLO1, C2)

(a) Given the relation R = {(1,1), (2, 2), (3, 3), (2, 4), (4, 2), (3, 4), (3,1), (1,3)} on the set A = {1, 2, 3, 4}.

(i) Draw the digraph on the given relation R.

[2 marks]



2

(ii) Determine whether R is reflexive, R is symmetric, and R is transitive. Explain your answers.

[6 marks]

@ (4, 4) ∉ R

X penalty

3

Reflexive :

- R is not reflexive because 4 R̸ 4

- ~~R is reflexive because 1R1, 2R2 and 3R3.~~

2

Symmetric :

- R is not symmetric because 3R4 but 4 R̸ 3.

- ~~R is symmetric because 1R3 and 3R1, 2R4 and 4R2.~~

2

-1

Transitive :

- R is not transitive because 1R3, 3R4 but 1 R̸ 4.

Helary Laurine

05DDT17F2093

DDT2B

Quiz 1

5/10

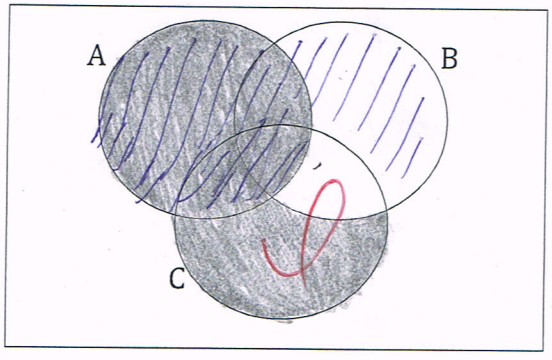
INSTRUCTION:

Answer all the questions. Show your working. It may help you to get marks.

Question 1 (CLO1, C2)

Shade in the set $A \cup (B \cap C')$

[2 marks]



$C' = \{1, 2, 3, 4\}$

$B = \{3, 4, 5, 8\}$

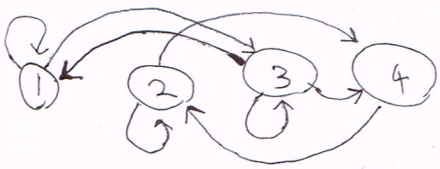
$B \cap C' = \{3, 4\}$

Question 2 (CLO1, C2)

(a) Given the relation R = {(1,1), (2, 2), (3, 3), (2, 4), (4, 2), (3, 4), (3,1), (1,3)} on the set A = {1, 2, 3, 4}.

(i) Draw the digraph on the given relation R.

[2 marks]



2

(ii) Determine whether R is reflexive, R is symmetric, and R is transitive. Explain your answers.

[6 marks]

R is not symmetric because 3 R 4 but 4 ✗ 3

R is irreflexive because 4 ✗ 4

R is symmetric because all elements is ~~a~~ ~~sub~~ belong ~~in~~ the set A.

R is not a transitive because a ✗ b,

3 R 4, 4 R 2 but 3 ✗ 2

3

Felester (OSDDT17F2039)

6/10

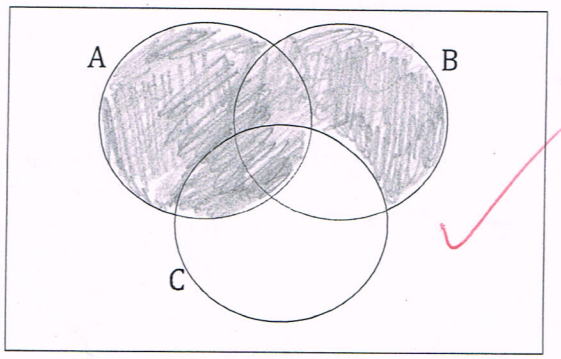
INSTRUCTION:

Answer all the questions. Show your working. It may help you to get marks.

Question 1 (CLO1, C2)

Shade in the set $A \cup (B \cap C')$

[2 marks]



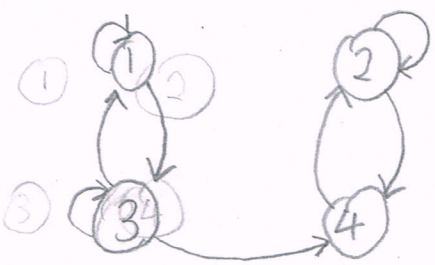
2

Question 2 (CLO1, C2)

(a) Given the relation R = {(1,1), (2, 2), (3, 3), (2, 4), (4, 2), (3, 4), (3,1), (1,3)} on the set A = {1, 2, 3, 4}.

(i) Draw the digraph on the given relation R.

[2 marks]



2

(ii) Determine whether R is reflexive, R is symmetric, and R is transitive. Explain your answers.

[6 marks]

① R is symmetric because (1R3), (3R1) and (2R4), (4R2)
② R is not symmetric because 3R4 but 4R3
③ R is reflexive because (1,1), (2,2) and (3,3).
④ R is not irreflexive because

R is not reflexive because

R is not symmetric because

Name: Macximillian

05DDT17F2042

7/10

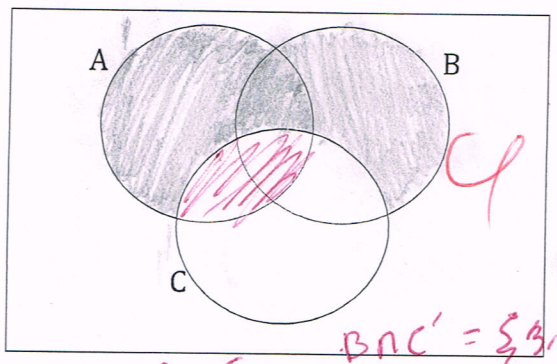
INSTRUCTION:

Answer all the questions. Show your working. It may help you to get marks.

Question 1 (CLO1, C2)

Shade in the set $A \cup (B \cap C')$

[2 marks]

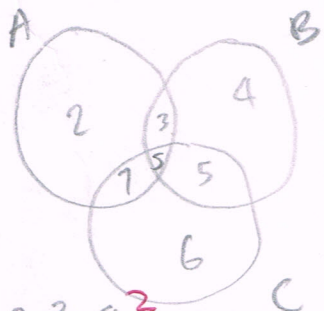


4

$B \cap C' = \{3,4\}$

$A = \{2,3,7,8\}$

$A \cup (B \cap C') = \{2,3,4,7,8\}$ #



$C' = \{1,2,3,4\}$

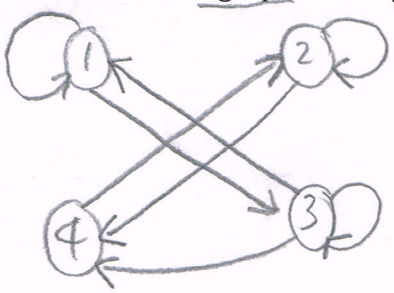
$B = \{3,4,5,8\}$

Question 2 (CLO1, C2)

(a) Given the relation R = {(1,1), (2, 2), (3, 3), (2, 4), (4, 2), (3, 4), (3,1), (1,3)} on the set A = {1, 2, 3, 4}.

(i) Draw the digraph on the given relation R.

[2 marks]



2

(ii) Determine whether R is reflexive, R is symmetric, and R is transitive. Explain your answers.

[6 marks]

① R is not refexive because 4 R 4

② R is not symmetric because 4 R 3

③ R is not transitive because 1 R 3, 3 R 1, 2 R 4, 4 R 2, 4 R 3

3 R 4, 4 R 2 but 3 R 2 ×

30/8/2018

Ayredale Syera
05DDT17F2009

Quiz 1

3/10

INSTRUCTION:

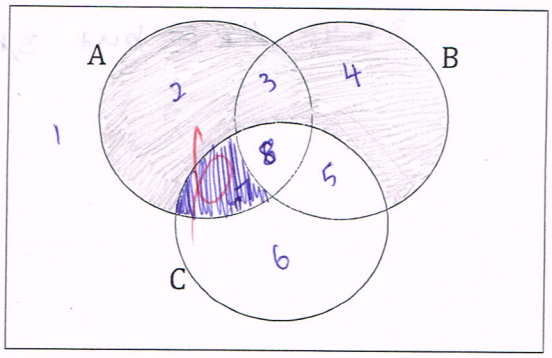
Answer all the questions. Show your working. It may help you to get marks.

Question 1 (CLO1, C2)

Shade in the set $A \cup (B \cap C')$ intersect - common element

[2 marks]

U - union (take all)



$C' = \{1, 2, 3, 4\}$

$B = \{3, 4, 5, 8\}$

$B \cap C' = \{3, 4\}$

$A = \{2, 3, 7, 8\}$

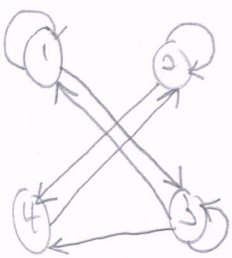
$A \cup (B \cap C') = \{2, 3, 4, 7, 8\}$

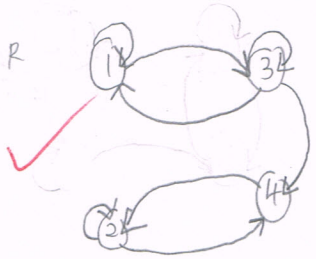
Question 2 (CLO1, C2)

(a) Given the relation R = {(1,1), (2, 2), (3, 3), (2, 4), (4, 2), (3, 4), (3,1), (1,3)} on the set A = {1, 2, 3, 4}.

(i) Draw the digraph on the given relation R.

[2 marks]





2

related to itself

aRa, bRa

aRa, bRa then cRa

(ii) Determine whether R is reflexive, R is symmetric, and R is transitive. Explain your answers.

[6 marks]

- R is not reflexive because 3R4 but 4R3.
- R is assymmetric because whenever 1R1, 2R2, 3R3, 2R4, 4R2, 3R1, 1R3 but 3R4 but 4R3.
- R is not transitive because whenever aRa, bRa then cRa. ~~R is not transitive because~~

Bryner Lee Young

0500717F2013

7/10

INSTRUCTION:

$A = \{1, 2\}$ $B = \{3, 4, 5\}$ $C = \{6, 7, 8\}$

Answer all the questions. Show your working. It may help you to get marks.

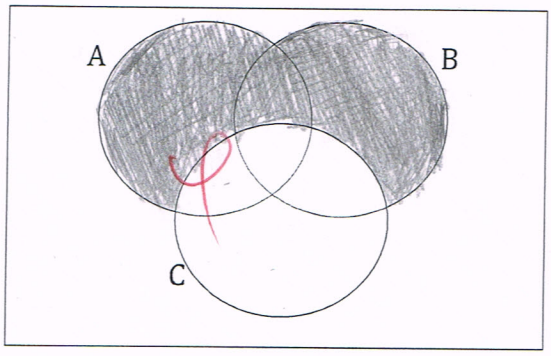
Question 1 (CLO1, C2)

Shade in the set $A \cup (B \cap C')$

$A \cup (B \cap C') = \{1, 2\} \cup \{3, 4, 5\}$

$= \{1, 2, 3, 4, 5\}$

[2 marks]

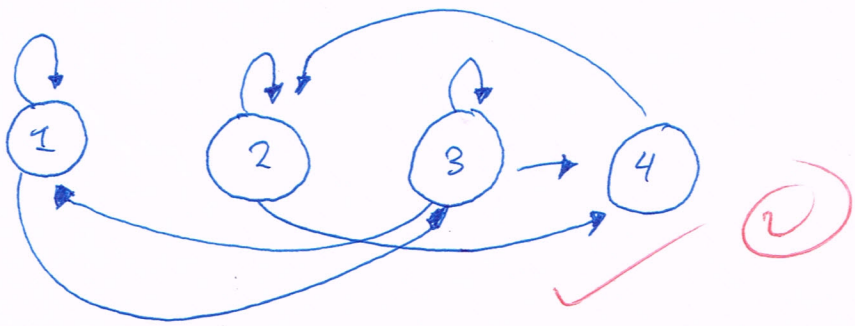


Question 2 (CLO1, C2)

(a) Given the relation R = {(1,1), (2, 2), (3, 3), (2, 4), (4, 2), (3, 4), (3,1), (1,3)} on the set A = {1, 2, 3, 4}.

(i) Draw the digraph on the given relation R.

[2 marks]



(ii) Determine whether R is reflexive, R is symmetric, and R is transitive. Explain your answers.

[6 marks]

bRa / aRb aRb bRa

1R1, 2R2, 3R3 but not 4R4

R = is not reflexive because ~~1∈A, 2∈A, 3∈ but not 4∈A~~

R = is not symmetric because 3 R 4 but 4 R 3

R = is not transitive because ~~3R4 but 4R3~~

1E3, 2∈4 3∈4 but 1∉2

Amelda Jocelyn 0500T17F3040 Quiz 1 Discrete Math

A/W

INSTRUCTION:

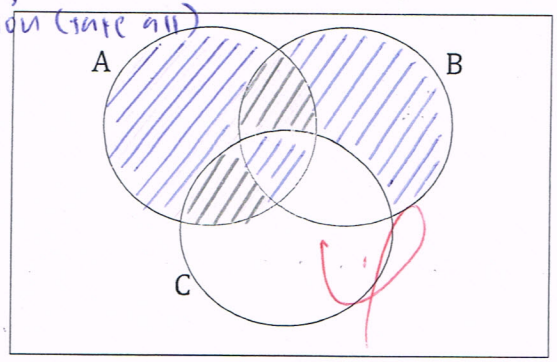
Answer all the questions. Show your working. It may help you to get marks.

Question 1 (CLO1, C2)

Shade in the set $A \cup (B \cap C')$

intersect Other than C

union (take all)

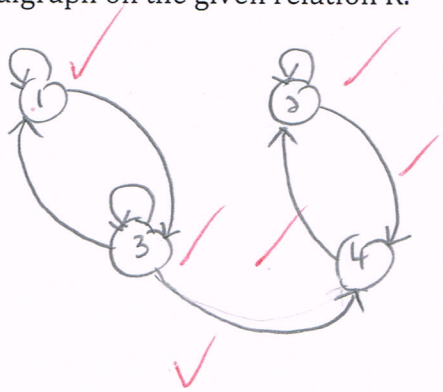


[2 marks]

Question 2 (CLO1, C2)

(a) Given the relation R = {(1,1), (2, 2), (3, 3), (2, 4), (4, 2), (3, 4), (3,1), (1,3)} on the set A = {1, 2, 3, 4}.

(i) Draw the digraph on the given relation R.



[2 marks]

① R is not reflexive because (4,4) ∉ R

② R is not symmetric because 3R4 but 4 ∉ 3.

③ R is not transitive because (3,4) in R but (3,3) not in R

(ii) Determine whether R is reflexive, R is symmetric, and R is transitive. Explain your answers.

[6 marks]

① R is not reflexive because there are only 1R1, 2R2, 3R3 but 4 ∉ 4. 2

② R is not symmetric because whenever 1R3, 3R1, 2R4, 4R2, 3R4 but 4 ∉ 3. 2

6

③ R is not transitive because whenever 1R3, 3R1, 3R4