

Quiz 1 (Makrup) (page 3 of 8) - Google Chrome

eleaming.psute.edu.jo/mod/quiz/attempt.php?attempt=103468&cmid=788230;page=2

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Discrete Mathematics (1) - All sections

Question 3

Answer saved

Marked out of 2.00

Flag question

Let P: This is a great website, Q: You should not come back here. Then 'This is a great website and you should come back here' is best represented by?

Select one:

☒ a.  $P \wedge \neg Q$

☐ b.  $P \vee Q$

☐ c.  $\neg P \vee \neg Q$

☐ d.  $P \wedge Q$

Clear my choice

PREVIOUS PAGE

NEXT PAGE

Quiz navigation

1

2

3

4

5

6

7

8

Finish attempt...

Time left 0:13:19

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## Discrete Mathematics (1) - All sections

### Question 4

Answer saved

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Flag question

Let  $p$ : you can volunteer for the army

$q$ : you are under 18

$r$ : there is an ongoing war

Express the following statement using symbols

"you can't volunteer for the army if you are under 18 unless there is an ongoing war"

Select one:

- ☒ a.  $(q \wedge \neg r) \rightarrow \neg p$
- ☐ b.  $(\neg q \wedge \neg r) \rightarrow \neg p$
- ☐ c.  $(q \vee \neg r) \rightarrow p$
- ☐ d.  $(\neg q \vee \neg r) \rightarrow p$

Clear my choice

Quiz navigation



Finish attempt...

Time left 0:13:11

PREVIOUS PAGE

NEXT PAGE

## Discrete Mathematics (1) - All sections

Question  
5

Answer saved

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Flag question

Let  $m$  = "Juan is a math major,"  
 $c$  = "Juan is a computer science major,"  
 $g$  = "Juan's girlfriend is a literature major,"  
 $h$  = "Juan's girlfriend has read Hamlet," and  
 $t$  = "Juan's girlfriend has read The Tempest."

Which of the following expresses the statement "Juan is a computer science major and a math major, but his girlfriend is a literature major who hasn't read both The Tempest and Hamlet."

Select one:

- ☐ A.  $c \wedge m \wedge g \wedge (h \vee t)$
- ☐ B.  $c \wedge m \wedge g \wedge (\sim h \wedge \sim t)$
- ☐ C.  $c \wedge m \wedge (g \vee (\sim h \wedge \sim t))$
- ☐ D.  $c \wedge m \wedge (g \vee (\sim h \vee \sim t))$
- ☒ E.  $c \wedge m \wedge g \wedge (\sim h \vee \sim t)$

Clear my choice

Quiz navigation



Finish attempt...

Time left 0:13:04

PREVIOUS PAGE

NEXT PAGE



# Discrete Mathematics (1) - All sections

Question 6  
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Quiz navigation

1	2	3	4	5	6	7	8
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Finish attempt...

Let  $p$ : I will pay my taxes  
 $q$ : paying my taxes  
 $r$ : I will go to jail.  
Express the following statement using symbols  
"I will pay my taxes only if me paying my taxes is necessary for me not going to jail"

Select one:

- ☐ a.  $\neg(p \rightarrow \neg q) \rightarrow r$
- ☐ b.  $\neg(q \rightarrow p) \rightarrow \neg(r \rightarrow q)$
- ☒ c.  $p \rightarrow \neg(r \rightarrow q)$
- ☐ d.  $(p \rightarrow \neg q) \rightarrow \neg r$

Clear my choice

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Quiz 1 (Makrup) (page 6 of 8) - Google Chrome

eleaming.pouteduio/mod/quiz/attempt.php?attempt=103468&cmid=788230;page=6

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Question 6

Answer saved

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Flag question

Let  $p$ : I will pay my taxes

$q$ : paying my taxes

$r$ : I will go to jail.

Express the following statement using symbols

"I will pay my taxes only if me paying my taxes is necessary for me not going to jail"

Select one:

☐ a.  $p \rightarrow (\neg q \rightarrow r)$

☐ b.  $\neg p \rightarrow (\neg q \rightarrow \neg r)$

☒ c.  $p \rightarrow (\neg r \rightarrow q)$

☐ d.  $(p \rightarrow \neg q) \rightarrow \neg r$

Clear my choice

Quiz navigation

1

2

3

4

5

6

7

8

Finish attempt...

Time left 0:12:54

PREVIOUS PAGE

NEXT PAGE

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Quiz 1 (Makrup) (page 7 of 8) - Google Chrome

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Question 7

Answer saved

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Flag question

The converse of the conditional statement "If it snows today, then I will ski tomorrow" is "If I ski tomorrow, then it will snow today".

Select one:

☒ True

☐ False

Quiz navigation

1

2

3

4

5

6

7

8

Finish attempt...

Time left 0:12:43

PREVIOUS PAGE

NEXT PAGE

