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Courses » Symbolic Logic

Announcements

Course

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Unit 7 - Week 6:

Course outline

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Week 6:

- Lecture 26: Completeness : What it is
- Lecture 27: Indirect Proof
- Lecture 28: Conditional Proof
- Lecture 29: More on Conditional Proof
- Lecture 30: More on Derivations
- Quiz : Week 6: Assignment 6
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Assignment

Week 6: Assignment 6

The due date for submitting this assignment has passed. **Due on 2018-09-19, 23:59 IST.**
As per our records you have not submitted this assignment.

1) 1 point

A logical system is complete if and only if every true conclusion is provable in the system.

- a) True
- b) False

- a)
- b)

No, the answer is incorrect.
Score: 0

Accepted Answers:
a)

2) 0 points

In Conditional Proof procedure, when we are making more than one assumption, the order of discharge should be 'first in last out'.

- a) True
- b) False

- a)
- b)

No, the answer is incorrect.
Score: 0

Accepted Answers:
b)

3) 1 point

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'In every limited scope assumption procedure, the assumption is within its own scope.'

- a) True
- b) False

- a)
- b)

No, the answer is incorrect.

Score: 0

Accepted Answers:

a)

4)

1 point

The Strengthened version of Conditional proof is supposed to apply to only the arguments that have conditional statements as their conclusion.

- a) True
- b) False

- a)
- b)

No, the answer is incorrect.

Score: 0

Accepted Answers:

b)

5)

1 point

Which of the following claims about the given proof by Strengthened version of Conditional Proof is / are true?

Consider the proof:

1. $P \supset (T \bullet S)$
2. $Q \supset (S \bullet W) / \therefore (\sim T \bullet \sim W) \supset (\sim P \bullet \sim Q)$

3. $\sim T \bullet \sim W$
4. $\sim T$
5. $\sim T \vee \sim S$
6. $\sim(T \bullet S)$
7. $\sim P$
8. $\sim W \bullet \sim T$
9. $\sim W$
10. $\sim W \vee \sim S$
11. $\sim S \vee \sim W$
12. $\sim(S \bullet W)$
13. $\sim Q$
14. $\sim P \bullet \sim Q$
15. $(\sim T \bullet \sim W) \supset (\sim P \bullet \sim Q)$ 3-14, CP

- a) Line 5 is obtained from line 4 by Conj.
- b) On line 7, the justification is 1, 6 by MP.
- c) The bent arrow closing line should be after line 13 and before line 14.
- d) Line number 12 is obtained from line number 11 by De Morgan's Theorem.

- a)
- b)
- c)
- d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

d)

6) 1 point

Consider the following argument and find out the correct answer from the following options:

1. $P / \therefore Q \vee (Q \supset R)$

- a) With the 19 rules and the Limited Scope Assumption Proofs, it is possible to prove this argument as valid.
- b) With the 19 rules and the Limited Scope Assumption Proofs, it is not possible to prove this argument as valid.

- a)
- b)

No, the answer is incorrect.

Score: 0

Accepted Answers:

a)

7)

True or false?

1 point

“From premises that contradict each other, any conclusion follows.”

a) True

b) False

a)

b)

No, the answer is incorrect.

Score: 0

Accepted Answers:

a)

8)

‘The proofs of tautologies or theorems are called zero-premise proofs.’

1 point

a) True

b) False

a)

b)

No, the answer is incorrect.

Score: 0

Accepted Answers:

a)

9)

‘The *Reductio Ad Absurdum* method begins with the rejection of a premise.’

1 point

a) True

b) False

a)

b)

No, the answer is incorrect.

Score: 0

Accepted Answers:

b)

10)

‘The Conditional Proof procedure introduces new inference rules and replacement rules in the proof system.’

1 point

a) True

b) False

a)

b)

No, the answer is incorrect.

Score: 0

Accepted Answers:

b)

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