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Final Exam Questions

1. Multiple choice

2.0/2.0 points (graded)

Examine this argument:

One thousand coffee drinkers selected randomly from all walks of life, from all ages, and from spots all around the city, were interviewed, and 10 percent said they add sugar to their coffee. Therefore, probably 10 percent of the city's coffee drinkers add sugar to their coffee.

Does this inductive argument seem to be strong or weak?

☒ Strong
✓

☐ Weak

Submit

You have used 1 of 1 attempt

2. Multiple choice

2.0/2.0 points (graded)

Examine this argument:

Eight people at the Army recruiting center were interviewed, and all of them said they believe the war is justified. Therefore, probably everyone believes the war is justified.

Does this inductive argument seem to be strong or weak?

☐ Strong

☒ Weak
✓

Submit

You have used 1 of 1 attempt

3. Multiple choice

2.0/2.0 points (graded)

Examine this argument:

Polar bear attacks on humans have been increasing over the past several years in certain parts of the Arctic. Scientists studying the attacks have discovered only one common variable present in each case: the animals had been disturbed by certain specific noises emanating from large cargo airplanes and scientific research stations. Moreover, these specific noises do not seem to be present in areas where the attacks are not increasing. Therefore, the attacks are probably caused by the disturbances in question.

Does this inductive argument seem to be strong or weak?

☒ Strong
✓

☐ Weak

Submit

You have used 1 of 1 attempt

4. Multiple choice

2.0/2.0 points (graded)

Which of the following is true in a valid deductive argument? (Choose one)

☐ if the premises are all false, the conclusion must be false

☒ if the premises are all true, then the conclusion cannot possibly be false
✓

☐ if the premises are all false, then the conclusion is likely

☐ the premises must be true

Submit

You have used 1 of 1 attempt

5. Multiple choice

2.0/2.0 points (graded)

Which of the following is true in a valid deductive argument? (Choose one)

☐ if at least one premise is true, the conclusion must be true

☐ if the premises are all true, then the conclusion is very probably true but not certain

☐ if the premises are all false, then the conclusion must be false

☐ the premises must all be true

☒ none of the above
✓

Submit

You have used 1 of 1 attempt

6. Multiple choice

2.0/2.0 points (graded)

Which of the following is true in a valid deductive argument? (Choose one)

- ☐ if no premise is true, the conclusion must be false
- ☐ the premises must all be at least probably true
- ☐ if the premises are all false, then the conclusion is probably false
- ☒ if the premises are all true, then the conclusion must be true
✓
- ☐ none of the above

Submit

You have used 1 of 1 attempt

7. Multiple choice

2.0/2.0 points (graded)

Examine the following argument:

1. If Amber goes jogging, then Barbara goes jogging with her.
2. It is not the case that Barbara will jog with Amber.
3. Therefore, it is not the case that Amber will jog.

Identify the argument above as an instance of one of the following forms. (Choose one)

☐ Modus Ponens

☒ Modus Tollens



☐ Disjunctive Syllogism

☐ Hypothetical Syllogism

☐ None

Submit

You have used 1 of 1 attempt

8. Multiple choice

2.0/2.0 points (graded)

Examine the following argument:

1. Amber jogs today, or Barbara jogs today.
2. It is not the case that Amber jogs today.
3. Therefore, Barbara jogs today.

Identify the argument above as an instance of one of the following forms. (Choose one)

☐ Modus Ponens

☐ Modus Tollens

☒ Disjunctive Syllogism



☐ Hypothetical Syllogism

☐ None

Submit

You have used 1 of 1 attempt

9. Multiple choice

2.0/2.0 points (graded)

Examine the following argument:

1. If Amber jogs today, then Barbara jogs today.
2. Amber jogs today.
3. Therefore, Barbara jogs today.

Identify the argument above as an instance of one of the following forms. (Choose one)

☒ Modus Ponens



☐ Modus Tollens

☐ Disjunctive Syllogism

☐ Hypothetical Syllogism

☐ None

Submit

You have used 1 of 1 attempt

10. Multiple choice

0.0/2.0 points (graded)

Examine the following argument:

1. If Amber jogs today, then Barbara jogs today.
2. It is not the case that Amber jogs today.
3. Therefore, it is not the case that Barbara jogs today.

Identify the argument above as an instance of one of the following forms. (Choose one)

☐ Modus Ponens

☒ Modus Tollens



☐ Disjunctive Syllogism

☐ Hypothetical Syllogism

☐ None

Submit

You have used 1 of 1 attempt

11. Multiple choice

2/2 points (graded)

Examine the following argument:

1. Amber works today, or Barbara works today.
2. It is not the case that Amber works today.
3. Therefore, it is not the case that Barbara works today.

Identify the argument above as an instance of one of the following forms. (Choose one)

☐ Modus Ponens

☐ Modus Tollens

☐ Disjunctive Syllogism

☐ Hypothetical Syllogism

☒ None



Submit

You have used 1 of 1 attempt

✓ Correct (2/2 points)

12. Multiple choice

0/2 points (graded)

Examine the following argument:

1. If Amber works today, then Barbara works today.
2. Barbara works today.
3. Therefore, Amber works today.

Identify the argument above as an instance of one of the following forms. (Choose one)

☒ Modus Ponens



☐ Modus Tollens

☐ Disjunctive Syllogism

☐ Hypothetical Syllogism

☐ None

Submit

You have used 1 of 1 attempt

✘ Incorrect (0/2 points)

13. Multiple choice

2/2 points (graded)

Examine the following argument:

1. If Amber works today, then Barbara works today.
2. Barbara does not work today.
3. Therefore, Amber does work today.

Identify the argument above as an instance of one of the following forms. (Choose one)

☐ Modus Ponens

☐ Modus Tollens

☐ Disjunctive Syllogism

☐ Hypothetical Syllogism

☒ None



Submit

You have used 1 of 1 attempt

✓ Correct (2/2 points)

14. Multiple choice

2/2 points (graded)

Examine the following argument:

1. Amber jogs today, or Barbara jogs today.
2. It is not the case that Debbie jogs today.
3. Therefore, Barbara jogs today.

Identify the argument above as an instance of one of the following forms. (Choose one)

☐ Modus Ponens

☐ Modus Tollens

☐ Disjunctive Syllogism

☐ Hypothetical Syllogism

☒ None



Submit

You have used 1 of 1 attempt

✓ Correct (2/2 points)

15. Multiple choice

2.0/2.0 points (graded)

Examine the following argument:

1. If Amber jogs today, then Barbara jogs today.
2. If Barbara jogs today, then Ned jogs today.
3. Therefore, if Amber jogs today, then Ned jogs today.

Identify the argument above as an instance of one of the following forms. (Choose one)

☐ Modus Ponens

☐ Modus Tollens

☐ Disjunctive Syllogism

☒ Hypothetical Syllogism



☐ None

Submit

You have used 1 of 1 attempt

16. Multiple choice

2.0/2.0 points (graded)

Examine the following argument:

1. Amber jogs today, or Barbara jogs today.
2. It is not the case that Sue jogs today.
3. Therefore, it is not the case that Ed jogs today.

Identify the argument above as an instance of one of the following forms. (Choose one)

☐ Modus Ponens

☐ Modus Tollens

☐ Disjunctive Syllogism

☐ Hypothetical Syllogism

☒ None



Submit

You have used 1 of 1 attempt

17. Multiple choice

2.0/2.0 points (graded)

In the case of a strong inductive argument: (Choose one)

☐ if the premises are all false, then the conclusion is probably false too

☐ if at least one of the premises is true, then the conclusion is probably true

☐ if the conclusion is true, then the premises are probably true

☐ if the premises are true, then the argument is called a "true" argument

☒ if the premises are all true, then the conclusion probably is true



Submit

You have used 1 of 1 attempt

18. Multiple choice

2.0/2.0 points (graded)

The only combination that you will *never* find in a strong inductive argument is

- ☐ true premises and a false conclusion
- ☐ true premises and a true conclusion
- ☐ false premises and a false conclusion
- ☐ false premises and a true conclusion
- ☒ none of the above, for any combination is possible



Submit

You have used 1 of 1 attempt

19. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

The Bards, a Seattle rock band, need a new sound system. The system must handle four singers, and it must be powerful enough to fill up a school gym. Friends in another band, Jimmy Hanna and the Dynamics, have a brand Z sound system that works well, so the Bards decide to buy a brand Z system. They reason that the brand Z sound system works fine for the Dynamics, so it will probably work fine for the Bards.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

The Dynamics regularly play in school gyms.

☒ Strengthen the argument



☐ Weaken the argument

☐ Unchanged

Submit

You have used 1 of 1 attempt

20. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

The Bards, a Seattle rock band, need a new sound system. The system must handle four singers, and it must be powerful enough to fill up a school gym. Friends in another band, Jimmy Hanna and the Dynamics, have a brand Z sound system that works well, so the Bards decide to buy a brand Z system. They reason that the brand Z sound system works fine for the Dynamics, so it will probably work fine for the Bards.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

The Bards know another band that uses and likes the same brand sound system.

☒ Strengthen the argument



☐ Weaken the argument

☐ Unchanged

Submit

You have used 1 of 1 attempt

21. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

The Bards, a Seattle rock band, need a new sound system. The system must handle four singers, and it must be powerful enough to fill up a school gym. Friends in another band, Jimmy Hanna and the Dynamics, have a brand Z sound system that works well, so the Bards decide to buy a brand Z system. They reason that the brand Z sound system works fine for the Dynamics, so it will probably work fine for the Bards.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

The Dynamics have used their sound system in many different settings, and it has always worked well.

☒ Strengthen the argument



☐ Weaken the argument

☐ Unchanged

Submit

You have used 1 of 1 attempt

22. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

The Bards, a Seattle rock band, need a new sound system. The system must handle four singers, and it must be powerful enough to fill up a school gym. Friends in another band, Jimmy Hanna and the Dynamics, have a brand Z sound

system that works well, so the Bards decide to buy a brand Z system. They reason that the brand Z sound system works fine for the Dynamics, so it will probably work fine for the Bards.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

The Bards play rock 'n' roll, but the Dynamics actually play only new-wave polka music at senior centers.

☐ Strengthen the argument

☒ Weaken the argument



☐ Unchanged

Submit

You have used 1 of 1 attempt

23. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

The Bards, a Seattle rock band, need a new sound system. The system must handle four singers, and it must be powerful enough to fill up a school gym. Friends in another band, Jimmy Hanna and the Dynamics, have a brand Z sound system that works well, so the Bards decide to buy a brand Z system. They reason that the brand Z sound system works fine for the Dynamics, so it will probably work fine for the Bards.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

The conclusion is changed to "The sound system will work perfectly."

☐ Strengthen the argument

☒ Weaken the argument



☐ Unchanged

Submit

You have used 1 of 1 attempt

24. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

The Bards, a Seattle rock band, need a new sound system. The system must handle four singers, and it must be powerful enough to fill up a school gym. Friends in another band, Jimmy Hanna and the Dynamics, have a brand Z sound system that works well, so the Bards decide to buy a brand Z system. They reason that the brand Z sound system works fine for the Dynamics, so it will probably work fine for the Bards.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

The conclusion is broadened to "The sound system will be adequate, although not always perfect."

☒ Strengthen the argument



☐ Weaken the argument

☐ Unchanged

Submit

You have used 1 of 1 attempt

25. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

On a visit to the Kingdom of Ogg on the Isle of Grog, all ten adults observed at dinner drank coffee with their meal. The conclusion drawn is that all adult Oggians drink coffee with dinner.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

All ten observed adults were men.

☐ Strengthen the argument

☒ Weaken the argument



☐ Unchanged

Submit

You have used 1 of 1 attempt

26. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

On a visit to the Kingdom of Ogg on the Isle of Grog, all ten adults observed at dinner drank coffee with their meal. The conclusion drawn is that all adult Oggians drink coffee with dinner.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

Five of the ten adults were women, and five were men.

☒ Strengthen the argument



☐ Weaken the argument

☐ Unchanged

Submit

You have used 1 of 1 attempt

27. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

On a visit to the Kingdom of Ogg on the Isle of Grog, all ten adults observed at dinner drank coffee with their meal. The conclusion drawn is that all adult Oggians drink coffee with dinner.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

All Oggians were observed on a Sunday.

☐ Strengthen the argument

☒ Weaken the argument



☐ Unchanged

Submit

You have used 1 of 1 attempt

28. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

On a visit to the Kingdom of Ogg on the Isle of Grog, all ten adults observed at dinner drank coffee with their meal. The conclusion drawn is that all adult Oggians drink coffee with dinner.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

We change the conclusion to "All Oggians drink coffee."

☐ Strengthen the argument

☒ Weaken the argument



☐ Unchanged

Submit

You have used 1 of 1 attempt

29. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

On a visit to the Kingdom of Ogg on the Isle of Grog, all ten adults observed at dinner drank coffee with their meal. The conclusion drawn is that all adult Oggians drink coffee with dinner.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

The ten adults were observed over a period of seven days.

☒ Strengthen the argument



☐ Weaken the argument

☐ Unchanged

Submit

You have used 1 of 1 attempt

30. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

On a visit to the Kingdom of Ogg on the Isle of Grog, all ten adults observed at dinner drank coffee with their meal. The conclusion drawn is that all adult Oggians drink coffee with dinner.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

All of the men observed wore unusually long beards, whereas no other Oggians wore beards.

☐ Strengthen the argument

☒ Weaken the argument



☐ Unchanged

Submit

You have used 1 of 1 attempt

31. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

On a visit to the Kingdom of Ogg on the Isle of Grog, all ten adults observed at dinner drank coffee with their meal. The conclusion drawn is that all adult Oggians drink coffee with dinner.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

We change the conclusion to "All adult Oggians drink coffee with their meals."

☐ Strengthen the argument

☒ Weaken the argument



☐ Unchanged

Submit

You have used 1 of 1 attempt

32. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

On a visit to the Kingdom of Ogg on the Isle of Grog, all ten adults observed at dinner drank coffee with their meal. The conclusion drawn is that all adult Oggians drink coffee with dinner.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

We change the conclusion to "All Oggians drink coffee with their dinners."

☐ Strengthen the argument

☒ Weaken the argument



☐ Unchanged

Submit

You have used 1 of 1 attempt

33. Multiple choice

2.0/2.0 points (graded)

Examine the following scenario.

On a visit to the Kingdom of Ogg on the Isle of Grog, all ten adults observed at dinner drank coffee with their meal. The conclusion drawn is that all adult Oggians drink coffee with dinner.

Does the addition of the item below strengthen the argument (S), weaken the argument (W), or leave the strength of the argument unchanged (U)?

We change the conclusion to "Many adult Oggians drink coffee with their dinners."

☒ Strengthen the argument



☐ Weaken the argument

☐ Unchanged

Submit

You have used 1 of 1 attempt

34. Multiple Choice

2.0/2.0 points (graded)

Classify the statement below as A, E, I, or O.

All computer scientists are logicians

☒ A (Universal Affirmative) ✓

☐ E (Universal Negative)

☐ I (Particular Affirmative)

☐ O (Particular Negative)

Submit

You have used 1 of 1 attempt

35. Multiple Choice

2.0/2.0 points (graded)

Classify the statement below as A, E, I, or O.

Some logicians are not scientists.

☐ A (Universal Affirmative)

☐ E (Universal Negative)

☐ I (Particular Affirmative)

☒ O (Particular Negative) ✓

Submit

You have used 1 of 1 attempt

36. Multiple Choice

2.0/2.0 points (graded)

Classify the statement below as A, E, I, or O.

No fizznits are spambots.

☐ A (Universal Affirmative)

☒ E (Universal Negative) ✓

☐ I (Particular Affirmative)

☐ O (Particular Negative)

Submit

You have used 1 of 1 attempt

37. Multiple Choice

2.0/2.0 points (graded)

Classify the statement below as A, E, I, or O.
Some algorithms are programs.

☐ A (Universal Affirmative)

☐ E (Universal Negative)

☒ I (Particular Affirmative) ✓

☐ O (Particular Negative)

Submit

You have used 1 of 1 attempt

38. Multiple Choice

2.0/2.0 points (graded)

Classify the statement below as A, E, I, or O.

Some programs are not functional.

☐ A (Universal Affirmative)

☐ E (Universal Negative)

☐ I (Particular Affirmative)

☒ O (Particular Negative) ✓

Submit

You have used 1 of 1 attempt

39. Multiple Choice

2.0/2.0 points (graded)

Classify the statement below as A, E, I, or O.

Some flashlights are hand-powered.

☐ A (Universal Affirmative)

☐ E (Universal Negative)

☒ I (Particular Affirmative) ✓

☐ O (Particular Negative)

Submit

You have used 1 of 1 attempt

40. Multiple Choice

2.0/2.0 points (graded)

Use a Venn diagram to test the argument below for validity.

Some politicians are idealistic persons. No idealistic persons are scientists. So, some scientists are not politicians.

According to the Venn diagram, is this argument valid or invalid?

☐ Valid

☒ Invalid ✓

Submit

You have used 1 of 1 attempt

41. Multiple Choice

2.0/2.0 points (graded)

Use a Venn diagram to test the argument below for validity.

No logicians are musicians. All musicians are artists. Consequently, no artists are logicians.

According to the Venn diagram, is this argument valid or invalid?

☐ Valid

☒ Invalid ✓

Submit

You have used 1 of 1 attempt

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