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Courses » Symbolic Logic Announcements **Course** Ask a Question Progress Mentor FAQ

Unit 8 - Week 7

Course outline

How to access Portal?

Week 1:

Week 2:

Week 3:

Week 4:

Week 5

Week 6:

Week 7

- Lecture 31 : Limitation of Propositional Logic
- Lecture 32: Basic 4 Types of Categorical Propositions
- Lecture 33: Understanding Logical Relations in Standard Form Categorical Propositions
- Lecture 34: Translating Non-Standard Propositions into Standard

Week 7: Assignment

The due date for submitting this assignment has passed.

As per our records you have not submitted this **Due on 2018-09-26, 23:59 IST.** assignment.

1) One of the limitations of Propositional logic is that it cannot further analyze the structurally simple statements to recover the logical relationship expressed in them. **2 points**

- a) True
- b) False

No, the answer is incorrect.

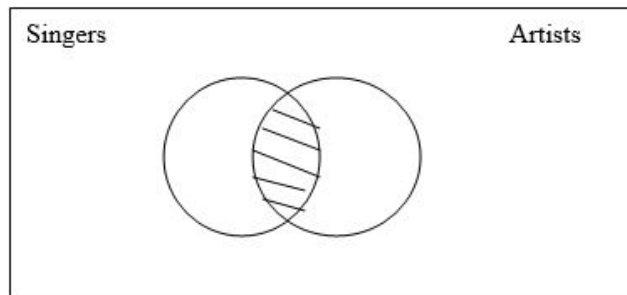
Score: 0

Accepted Answers:

a) True

2) The correct Venn Diagram for the statement "Some singers are not artists" is:

2 points



- a) True
- b) False

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) False

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Score: 0**Accepted Answers:***b) False*

4) The statement "Sheep are not hostile animals" when correctly translated into standard form categorical proposition, will be "All sheep are not hostile animals". **2 points**

- a) True
- b) False

No, the answer is incorrect.**Score: 0****Accepted Answers:***b) False*

5) Which of the following is/are not categorical statements? **2 points**

- a) College students are reckless people.
- b) Weather predictions are claims that are often wrong.
- c) Polar bears are not blue.
- d) Either he did not notice the change or he approves of it.

No, the answer is incorrect.**Score: 0****Accepted Answers:***d) Either he did not notice the change or he approves of it.*

6) If the statement "All film stars are glamorous" is true, then in a Traditional Square of Opposition which of the following is not correct? **2 points**

- a) "No film stars are glamorous" is false by contrary relation.
- b) "Some film stars are glamorous" is true by sub-alternation.
- c) "Some film stars are not glamorous" is false by contradiction.
- d) "No film stars are glamorous" is true by sub-contrary relation.

No, the answer is incorrect.**Score: 0****Accepted Answers:***d) "No film stars are glamorous" is true by sub-contrary relation.*

7) Which of the following options is/are true? Consider the syllogism: Some metals are conductors. All copper alloys are metals. Therefore, some copper alloys are conductors. **0 points**

- a) The figure of the syllogism is 2nd figure.
- b) "Conductors" is the major term.
- c) The syllogism is in standard form.
- d) The mood of the syllogism is I EI.

No, the answer is incorrect.**Score: 0****Accepted Answers:***c) The syllogism is in standard form.*

8) Which of the following options is/are false? Consider the syllogism following syllogism: All citizens are residents. No foreigners are citizens. Therefore, No foreigners are residents. **4 points**

- a) Testing the validity of the syllogism by correctly drawn Venn Diagram shows that the syllogism is valid; for SPM area is fully shaded.

- b) Testing the validity of the syllogism by correctly drawn Venn Diagram shows that the syllogism is valid, because the SPM area is shaded.
- c) Testing the validity of the syllogism by correctly drawn Venn Diagram shows that the syllogism is invalid because the $S\bar{P}M$ and SPM are areas are all empty.
- d) Testing the validity of the syllogism by correctly drawn Venn Diagram shows that the syllogism is invalid because the $S\bar{P}M$ area is not shaded.

No, the answer is incorrect.

Score: 0

Accepted Answers:

- a) *Testing the validity of the syllogism by correctly drawn Venn Diagram shows that the syllogism is valid for $S\bar{P}M$ area is fully shaded.*
- b) *Testing the validity of the syllogism by correctly drawn Venn Diagram shows that the syllogism is valid because the $S\bar{P}M$ area is shaded.*

Previous Page

End