



INTRODUCTORY LOGIC

James B. Nance

TESTS

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C162 Introductory Logic Tests

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James B. Nance received his B.S. in Mechanical Engineering from Washington State University in 1984. After working for the Boeing Airplane Company, Jim started teaching at Logos School in Moscow, Idaho in 1990. Jim teaches Logic, Rhetoric, Calculus, Physics, and Christian Doctrine. He is an elder at Christ Church. Jim and his wife Giselle have four children.

TESTS

Introductory Logic Test 5

Covering material from the text, pages 80-92.

Name _____

1. What is an *enthymeme*? _____

Problems 2-10: Translate the given statement into standard categorical form. If the statement contains a parameter, you must translate the parameter.

2. Fred is an elder.

3. My daughter cries whenever she sees a balloon.

4. Bears are not polite.

5. Only the brave deserve the fair.

6. Whoever trusts in riches will fall.

7. Not all men are involved in athletics.

8. If a ruler listens to lies, all his officials become wicked.

9. You can't have any pudding unless you eat your meat.

10. Teachers are never late to class.

Problems 11-15: Translate the given argument into complete standard-form syllogisms. Do not abbreviate.

11. All non-athletes are uninspired, since no athletes are unhappy, and all happy people are inspired.

12. He complains whenever he is sick, but now his health is good, so he won't complain.

13. Only the good die young, and Alexander died young. Therefore he must have been good.

14. The Bible is God's word, thus the Koran is not God's word.

15. Whoever rejects the Son will not see life, because God's wrath remains on him.

Introductory Logic Test 6

Name _____

Covering material from the text, pages 93-118.

1. What is the difference between *pure* hypothetical syllogisms and *mixed* hypothetical syllogisms?

2. Consider the hypothetical statement, "If we confess our sins, then he will forgive our sins."

Write out the antecedent: _____

Write out the consequent: _____

3. Give an example of a valid pure hypothetical syllogism. _____

Problems 4-10: In the blank at the right, identify the given hypothetical syllogism as *modus ponens* (MP), *modus tollens* (MT), *asserting the consequent* (AC), or *denying the antecedent* (DA).

4. If you miss class then you will be lost the next day. Suzie did not miss class, so she was not lost the next day.

5. If you want to be understood then you must write clearly. I want to be understood. Thus I must write clearly.

6. Betty said that if the water was warm she would go swimming. She went swimming, so the water must have been warm.

7. If you subsidize laziness, you will get more laziness. The welfare system subsidizes laziness; therefore we can expect more laziness.

8. If sacrifices were effective then they would have ceased. The sacrifices had not ceased. Therefore they were not effective.

9. If he had been asleep, his eyes would have been closed. His eyes were closed. So he must have been asleep.

10. If one does not work then neither will he eat. I want to eat; therefore I must work.

Problems 11-15: Translate the given Latin names of informal fallacies into English.

11. *Ad baculum* _____
12. *Ad populum* _____
13. *Iipse dixit* _____
14. *Post hoc ergo propter hoc* _____
15. *Tu quoque* _____

Problems 16-25: Identify the given informal fallacies by writing the correct letters from the list below in the blanks at the right.

- | | | |
|---------------|------------------------------|---------------------------|
| A. ipse dixit | G. equivocation | M. complex question |
| B. ad populum | H. accent | N. composition |
| C. ad baculum | I. petitio principii | O. apriorism |
| D. ad hominem | J. either/or | P. ad ignoratum |
| E. Bulverism | K. post hoc ergo propter hoc | Q. amphiboly |
| F. tu quoque | L. division | R. chronological snobbery |

16. You are telling me that speeding is illegal? How many speeding tickets do *you* have? _____
17. Why should we study Aristotle? His writings are so old; there must be something better. _____
18. That witch doctor has great power. When the sun went dark, he pounded on his magic drum, and soon after the sun emerged again. _____
19. UFOs are either alien spaceships or the delusions of a few crazy people looking for instant fame. _____
20. UFOs must be alien spaceships, because nobody has proven that they are anything else. _____
21. The psychiatrist asked, "Have you ever given up smoking?" I said, "No." Then he said, "I will just write down that you are still a smoker." _____
22. Sally said that her brother was really mad yesterday. But mad people should be put in asylums, so they should lock him up. _____
23. Only short poems are good poems, because poems that are longer are too long. Any long poem that is good must, therefore, be a combination of short poems. _____
24. Mr. Smith, I think you agree that your employees deserved to be paid more. If you don't agree now, I think you will after a long strike. _____
25. The sun travels around the earth, not the earth around the sun. The pope has declared this to be the official doctrine for all Christendom. _____

ANSWER KEYS FOR TESTS

Test 5

1. An argument in which a statement is left assumed.
2. All Fred is an elder.
3. All times my daughter sees a balloon are times she cries.
4. No bears are polite animals.
5. All deservers of the fair are the brave.
6. All people who trust in riches will be ones who fall.
7. Some men are not athletes.
8. All situations in which a ruler listen to lies are situations in which his officials become wicked.
9. All times you can have pudding are times you eat your meat.
10. No times teachers come to class are times they are late.
11. All athletes are happy people.
All happy people are inspired people.
 \therefore All inspired people are athletes.
12. All times he is sick are times he complains.
No time now is a time he is sick.
 \therefore No time now is a time he complains.
13. All people who die young are good people.
All Alexander is a person who died young.
 \therefore All Alexander is a good person.
14. All the Bible is God's Word.
(No Bible is a Koran.)
 \therefore No Koran is God's Word.
15. (No receivers of God's wrath are seers of life.)
All rejecters of the Son are receivers of God's wrath.
 \therefore No rejecters of the Son are seers of life.

Test 6

1. Pure hypothetical syllogisms do not contain categorical statements, but mixed hypothetical syllogisms do.
2. Antecedent: We confess our sins.
Consequent: He will forgive our sins.
3. If you believe then you are justified.
If you are justified then you will be glorified.
So if you believe then you will be glorified.
(Answers may vary)
4. DA
5. MP
6. AC
7. MP
8. MT
9. AC
10. MT
11. To the stick.
12. To the people.
13. He said it himself.
14. After this therefore because of this.
15. You also.
16. F
17. R
18. K
19. J
20. P
21. M
22. G
23. I
24. C
25. A