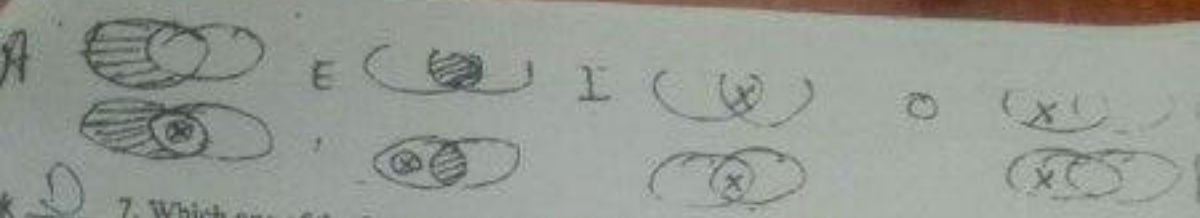


Hcampus

be reasonable, to be successful



D 7. Which one of the following immediate inference commits a fallacy?
A. Some X are Y; therefore, some X are not non-Y
B. All X are Y; therefore, no X are non-Y
C. No X are Y; therefore, all X are non-Y
D. Some X are not Y; therefore, some non-Y are non-X
E. None of these

E 8. Which is **wrong** about the argument: *'Some students are not teachers; Therefore, it is false that all students are teachers'?*
A. It is necessarily valid for both modern and traditional squares of opposition
B. If the truth value of the conclusion is changed, it is invalid to Boole and Aristotle
C. If the truth value of the premise is changed, the argument is necessarily invalid for any square of opposition
D. For the Booleans, the premise and conclusion have identical Venn diagrams
E. None of the above

9. Which of the following is **NOT** correct about a proposition asserting that part of the subject is not excluded from the predicate class?
A. Both Aristotle and George have common claims on the proposition
B. Nothing is asserted about every member of the terms denoting the classes
C. At least one thing exists on an area which is common to both classes
D. Only an 'x' mark is employed to represent its content in Venn diagram
E. None of the above

D 10. In traditional square of opposition the following relations **cannot** have identical truth values for the propositions involved.
A. contrary
B. subcontrary
C. subalterations
D. contradictory
E. None of these

11. If the truth value for a given proposition: _____ is false, then using a particular logical operation the truth value for "All non-B are A will be False.
A. No A are B
B. All non-A are B
C. All A are B
D. All B are non-A
E. None

7. I love President Mugabe; because every African loves him. _____

8. Our hospitals are short of medicine and proper medical personnel; thus the proper solution is to close them all. _____

9. My grandmother was so intelligent; because no one proved still that she was dull. _____

10. I am a widow with three kids, and also I have to support my sick old father. Thus I deserve this job more than anybody else. Ad Consequentiam

Instruction III: Write True if the statement is correct and False if it is incorrect on the answer sheet provided.(1 point for each)

T 1. Subject term is undistributed in any particular categorical propositions. T
T 2. The predicate term is distributed in all negative propositions. T
T 3. If an O proposition is given as false, we can logically determine the truth values of its corresponding I and E propositions from Aristotelian stand point. T
F 4. Contraposition is a logical operation which involves switching the subject with the predicate term and replacing the predicate term with its complement. F
T 5. Any categorical syllogism containing an ambiguous word is not given in standard form. T

Instruction IV: Workout

1. Using "intellectuals" as the predicate term of the conclusion, "genuine individuals" as the subject of the conclusion and "corrupted officials" as the middle term, construct the argument and determine its validity for **OEI-3**. If the argument is invalid, identify at least one fallacy.

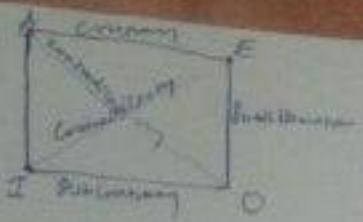
Some C are not I.
No C are G
Some G are I





Exclusive premise.

Invalid



C 23. If the proposition "Some non-P are not non-S" is given False, what is the truth value for "Some S are not P"?

A. It must be False.
B. It must be true.
C. It may be either true or false.
D. It is undetermined.
E. C and D

C 24. One of the following is TRUE about the terms in a standard form of categorical syllogism:

A. The major premise necessarily contains the predicate term of the conclusion.
B. The minor premise necessarily contains the predicate term of the conclusion.
C. The middle term exists both in the minor premise and the conclusion.
D. All of the above
E. None of the above

Answer the following three questions based on the following categorical syllogism:

Some M are P.
All M are S.
Some S are not P.



D 25. One of the following is NOT true about the argument given above:

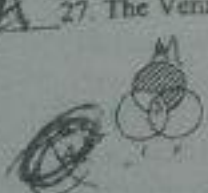
A. The mood is IAO
B. It is in the third figure
C. Its syllogistic form is IAO-3
D. It is a valid argument
E. It is an invalid argument.



E 26. One of the following is TRUE about the evaluation of he above augment:

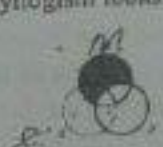
A. It commits Illicit Major Fallacy
B. It commits Illicit Minor Fallacy
C. It commits Drawing Negative conclusion from Affirmative premises
D. It commits Exclusive Fallacy
E. A and C

A 27. The Venn diagram for the above syllogism looks like:



B.





D.



E. None

_____12. In one of the following arguments the middle term does NOT assert something about every member of the class it denotes.

A. EAE-2
B. AII-2
C. AEE-4
D. AAI-3
E. EAO-3

_____13. Given the truth values for A, B and C are true and D, E and F are false, which one of the following compound propositions has false truth value?

A. $(B \cdot C) \supset (E \supset A)$
B. $\sim(C \vee \sim A) \supset \sim B$
C. $\sim[(D \vee F) \cdot (B \vee \sim A)] \supset \sim(F \supset \sim C)$
D. All
E. None

1 _____14. One of the following is NOT true about the argument: *"Some logic instructors are PhD students; All logic instructors are MA holders; therefore, Some MA holders are PhD students."* ?

A. The middle term is *logic instructors*
B. The major term is *PhD students*
C. The minor term is *MA holders*
D. The major premise is *PhD students*
E. None of the above

_____15. One of the following propositions is given in standard form of categorical propositions:

A. Ice melts at hundred degrees centigrade.
B. All birds are not mammals.
C. Some children are human beings who shout in the classroom.
D. No employees are not corrupted.
E. None of the above

_____16. One of the following propositions can serve as a component part of a syllogism:

A. If all citizens clean their environment, then our earth will be clean.
B. Either '*Wolqait*' sugar Plant will be built or Ethiopia will not have sufficient sugar product.
C. All students are learners.
D. All of the above
E. None of the above

Major term by def: is the predicate of the conclusion
minor term: is the subject of the conclusion
middle term: is/c provides the middle ground b/n the two premises
class that occurs in conclusion

28. One of the following arrangements of symbols does NOT qualify as WFFs (well formed formula)

A. $(F \cdot H) \vee (\sim K \cdot \sim L)$
B. $[K \vee (S \cdot \sim T)] \supset [\sim F \vee (M \cdot O)]$
C. $K \vee S \cdot \sim T \supset [\sim F \vee (M \cdot O)]$
D. $[K \vee (F \supset I)] \equiv [\sim L \cdot (G \vee H)]$
E. None of the above

29. Which one of the following is NOT a compound statement?

A. ~A
B. $(B \supset C) \vee D$
C. $E \supset (F \cdot \sim G)$
D. $K \equiv L$
E. None of the above

30. $\sim [(K \vee L) \cdot (\sim O \supset P)] \equiv [(\sim E \cdot P) \supset (R \cdot B)]$ Which one of the following is the main operator?

A. Negation ~
B. Conjunction ·
C. Disjunction ∨
D. Implication ⊃
E. Bi-implication ≡

31. Which one of the following five steps should come first in computing the truth value of a longer proposition?

A. Operators joining letters or negated letters.
B. Operators joining parenthesis or negated parenthesis with letters, parenthesis or negated parenthesis
C. Tildes immediately preceding individual letters.
D. Tildes immediately preceding parenthesis.
E. Tildes immediately preceding brackets.

32. Which one of the following argument form is fallacious (invalid)?

A. (MP) $p \supset q / p // q$
B. (MT) $p \supset q / \sim q // \sim p$
C. (CD) $(p \supset q) \cdot (r \supset s) / \sim q \vee \sim s // \sim p \vee \sim r$
D. (AC) $p \supset q / q // p$
E. (DS) $p \vee q / \sim p // q$

33. The relation between the truth values of the following two statements is _____.

(1) $(A \supset B) \vee C$ (2) $(D \cdot \sim E) \supset F$

A. Tautologous
B. Logically equivalent
C. Contradictory
D. Self-contradictory
E. None of the above

_____12. In one of the following arguments the middle term does NOT assert something about every member of the class it denotes.

A. EAE-2
B. AII-2
C. AEE-4
D. AAI-3
E. EAO-3

_____13. Given the truth values for A, B and C are true and D, E and F are false, which one of the following compound propositions has false truth value?

A. $(B \cdot C) \supset (E \supset A)$
B. $\sim(C \vee \sim A) \supset \sim B$
C. $\sim[(D \vee F) \cdot (B \vee \sim A)] \supset \sim(F \supset \sim C)$
D. All
E. None

1 _____14. One of the following is NOT true about the argument: *"Some logic instructors are PhD students; All logic instructors are MA holders; therefore, Some MA holders are PhD students."* ?

A. The middle term is *logic instructors*
B. The major term is *PhD students*
C. The minor term is *MA holders*
D. The major premise is *PhD students*
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_____15. One of the following propositions is given in standard form of categorical propositions:

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Major term by def: is the predicate of the conclusion
minor term: is the subject of the conclusion
middle term: is/c provides the middle ground b/n the two premises
class that occurs in conclusion

I. True or False Questions (24%)

_____1. All unsound arguments are invalid arguments but not the vice versa.

_____2. Stipulative definitions can have truth values of their own

_____3. The subject term is undistributed in any particular categorical propositions

_____4. A statement that immediately follows the indicator word *"for the reason that"* is the conclusion.

_____5. If a word lacks an objective class to which it refers, it is said to be with an empty extension

_____6. Conclusion of any inductive argument is never certain

_____7. Simple group of statements can be taken as an argument

_____8. Fallacies would never be common in deductive arguments

_____9. Logic has to do more with cognitive meanings than with emotive meanings.

_____10. Single proposition has its own validity

_____11. The quality of particular categorical propositions is determined by their quantifiers

_____12. Dictionary definitions are so useful in eliminating problems of vagueness arising from within an argument.

_____13. Informal fallacies give due consideration to mistakes committed in logical structures of arguments

_____14. Logic is a science that evaluates statements

_____15. A deductive argument having true premise and false conclusion is non-existent

_____16. Definition by sub-class is produced by naming the qualities that a term connotes

II. Multiple Choice Questions (15%)

_____17. Which is common to all universal categorical propositions

A) A claim about every member of predicate term is asserted

B) None of the subject terms is distributed

C) Aristotle and Boole have positive claim about existence

D) Quality is determined by copula E) None of these

_____18. Having the idea of Aristotelian Interpretation in mind, in which of the following pairs of propositions one may not expect a sort of opposition?

A) A and O B) O and I C) E and A D) I and A E) E and I

_____19. If you are sure that a deductive argument is not valid, it must not be_____

A) Invalid B) unsound C) sound D) all but 'C' E) none of these

_____34. Given that G, H, I True and J, K, L false, what is the truth value of the following proposition? ~ [(G ⊃ H) • (I ∨ J)] ≡ [(K ⊃ ~G) ∨ (~J • L)]

A. True
B. False
C. Half true and half false
D. Valid
E. Invalid

_____35. Which one of the following is TRUE about the following arrangement of proposition?

~M ⊃ N / N ⊃ M / M ⊃ ~N // M • ~N

A. It is valid
B. It is Invalid
C. It is True
D. It is False
E. None of the above

Instruction II. ***Assign the name of the proper fallacy given below to the arguments that are written from No. 1-10.***

No fallacy	Argument against the person-abusive
Suppressed evidence	Missing the point
Appeal to piety	Equivocation
Non causa pro causa	Composition
Appeal to ignorance	Appeal to people-bandwagon
Division	Straw man

1. President Obama is not an African-American. His mother is an Irish, besides he has never lived in Africa. no fallacy

2. My mother promised me to buy a motor cycle, if I stand first in my class. Thus my mother has to buy me a motor cycle so that I will stand first in my class. Appeal to piety

3. Netanyahu argues to crush Iran like Iraq and Afghanistan. He is just a heartless monster without any respect for the value of human life. We, therefore, should not attend his poisonous rhetoric. Appeal to ignorance

4. Keys help to open unlocked doors. This key is an answer key. Thus it helps to open the door of answers.

5. He is innocent; because there is no proof that he is guilty of a crime.

6. Our heart is made up of microscopic cells; thus our heart is microscopic.