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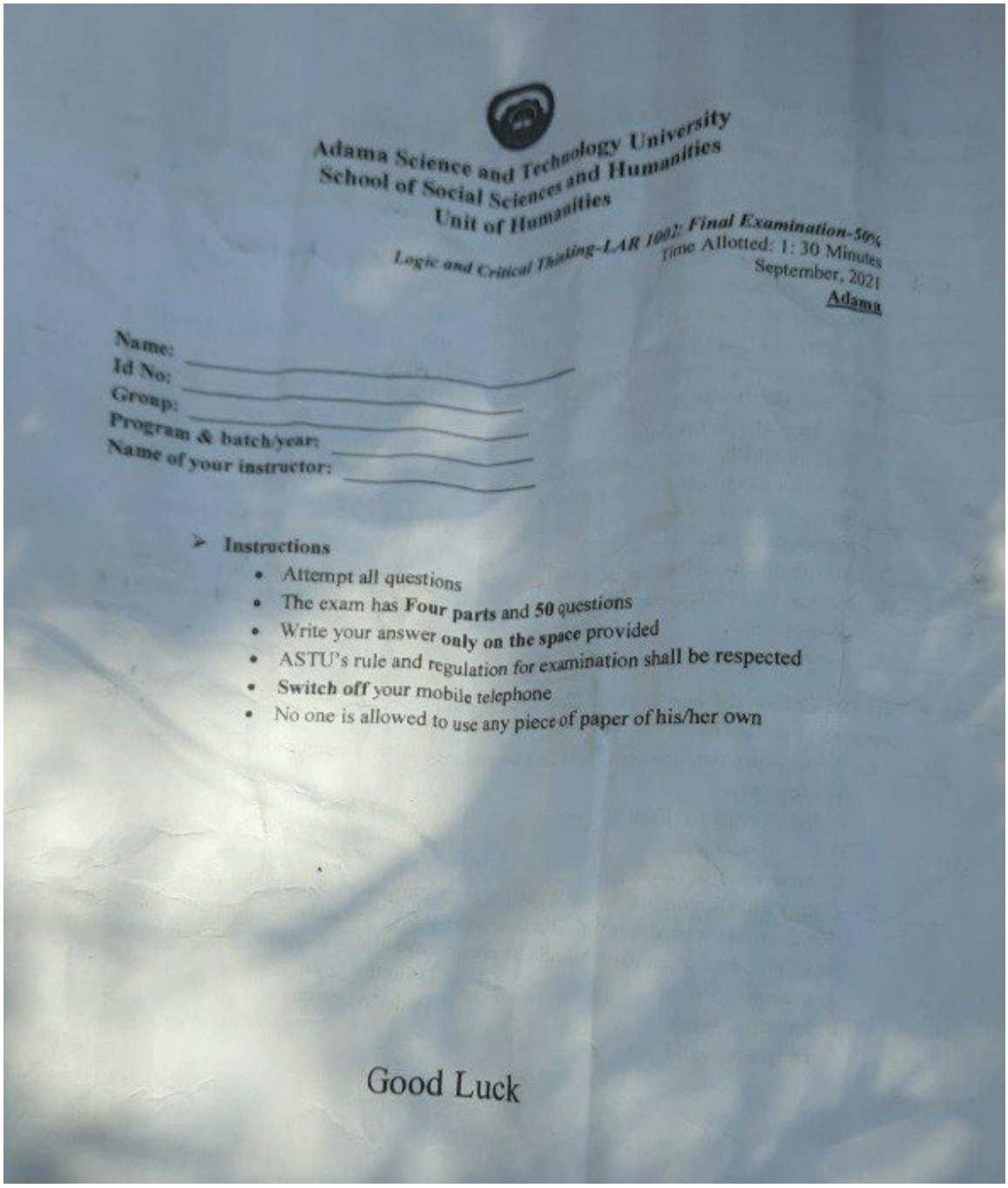
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Adama Science and Technology University
School of Social Sciences and Humanities
Unit of Humanities

Logic and Critical Thinking-LAR 1003: Final Examination-50%
Time Allotted: 1: 30 Minutes
September, 2021
Adama

Name: _____
Id No: _____
Group: _____
Program & batch/year: _____
Name of your instructor: _____

- **Instructions**
  - Attempt all questions
  - The exam has **Four parts** and **50** questions
  - Write your answer **only on the space** provided
  - ASTU's rule and regulation for examination shall be respected
  - **Switch off** your mobile telephone
  - No one is allowed to use any piece of paper of his/her own

Good Luck

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38. Each teaching facilities Professor Olika brought to the class today are lighter than 1kg meat. Consequently, professor Olika himself weight less than 1kg meat. *The argument commit a fallacy of:*
   A. Composition
   B. Appeal to ignorance
   C. Missing the point
   D. Division
   E. hasty generalization

39. On the 3 occasions I attended Adama town first instance court, all issues of trial were the cases of robbery. It is safe to conclude that, Adama town is dwelled by no good person other than a bunch of robbers. *This argument commit a fallacy of:*
   A. Accident
   B. Hasty generalization
   C. Missing the point
   D. No fallacy
   E. Weak analogy

Part IV: Write the correct answer for the following question.

1. **Given**: "*No professional engineers are illiterates*" (***True***). Determine the truth value and operation performed on propositions from a-c.

	Truth value	***Operation performed***
(a) All professional engineers are literates.	_____	_____
(b) No literates are non-professional engineers.	_____	_____
(c) No illiterates are professional engineers.	_____	_____

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26. The Surgeon General recently issued a report arguing that one third of the cancer fatalities in Ethiopia can be attributed to smoking. But this claim is ridiculous. Smoking produces a great deal of enjoyment for millions of Ethiopians. What would life be like if you can't enjoy something once in a while? *This passage commits a fallacy of?*
A. Slippery slope
B. Red herring
C. Missing the point
D. Appeal to people
E. Straw man

27. In the traditional square of opposition if the proposition; "*All American presidents are democrats*" is given (*True*), one of the following conclusion is not validly drawn:
A. Some American presidents are democrats
B. It is false that Some American presidents are not democrats
C. It is false that Some American presidents are democrats
D. It is false that No American presidents are democrats
E. All are correct

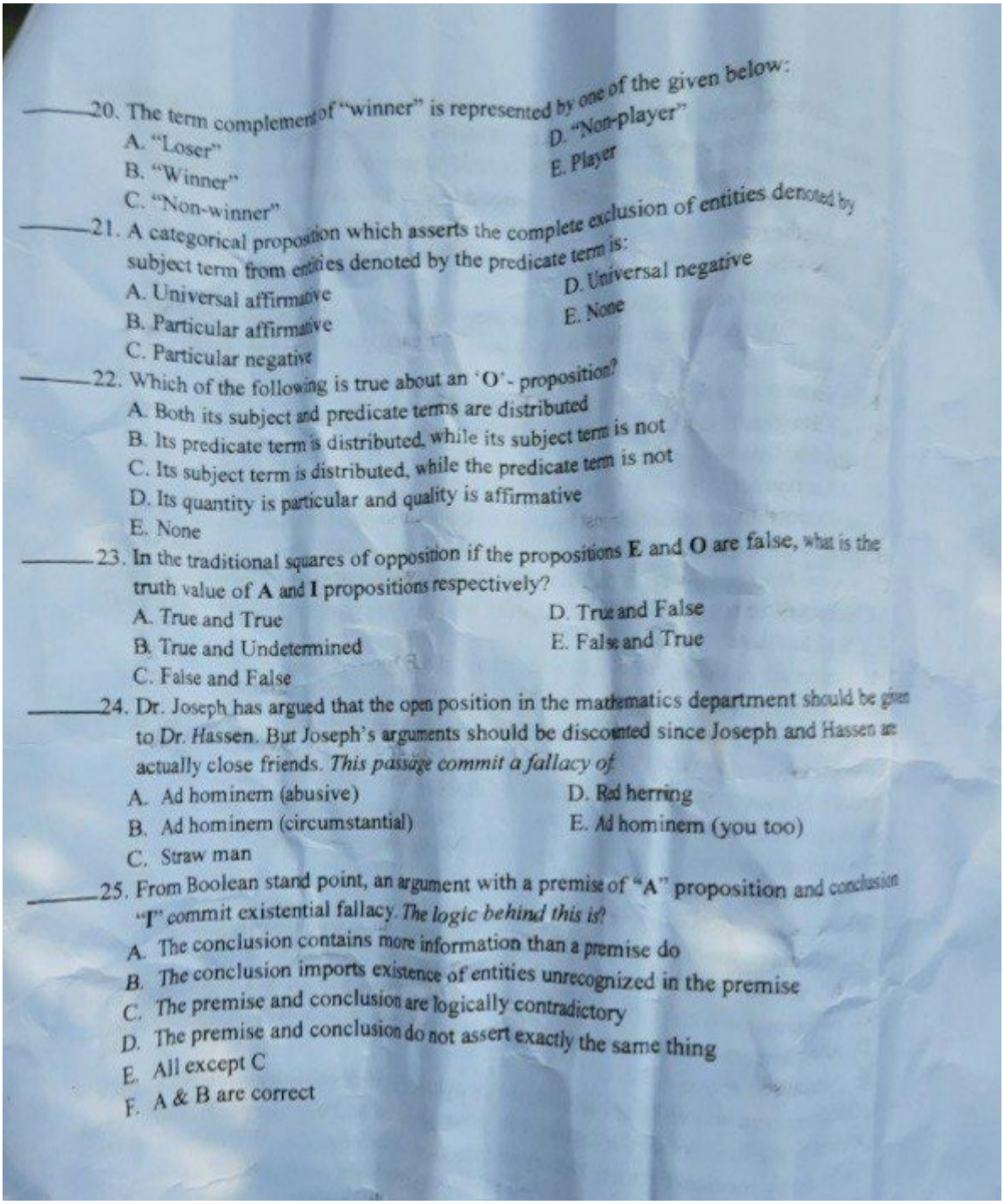
28. Some parents in our school district have asked that we provide bilingual education in Spanish. This request will have to be denied. If we provide this service, then someone will ask for bilingual education in Greek. Then it will be German, French, Polish, Russian and Chinese. We certainly can't accommodate all of them. *This passage commits a fallacy of?*
A. Weak analogy
B. Suppressed evidence
C. Slippery slope
D. Appeal to people
E. Appeal to ignorance

29. **Joseph**: Saron, I know that you are not exposing your marriage, but is your husband still cheating on you?
Balcha: No way! *This dialogue commits a fallacy of:*
A. Begging the question
B. Complex question
C. Ad hominem abusive
D. Leading question
E. Suppressed evidence

30. Identity false statement about Aristotelian stand point:
A. Universal propositions about actually existing thing do have existential import
B. Particular propositions make a positive assertion about existence
C. All arguments with Universal premise and particular conclusion is unconditionally valid
D. All arguments with universal premise and particular conclusion is conditionally valid
E. None of the above

31. Good tempered and visionary individuals are patients, and since patients are healed while treated by medical doctors, it follows that; good tempered and visionary individuals should be treated by medical doctors. *This argument commit a fallacy of:*
A. Begging the question
B. Leading question
C. Composition
D. Accident
E. Equivocation

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_____20. The term complement of "winner" is represented by one of the given below:
A. "Loser"
B. "Winner"
C. "Non-winner"
D. "Non-player"
E. Player

_____21. A categorical proposition which asserts the complete exclusion of entities denoted by subject term from entities denoted by the predicate term is:
A. Universal affirmative
B. Particular affirmative
C. Particular negative
D. Universal negative
E. None

_____22. Which of the following is true about an 'O'- proposition?
A. Both its subject and predicate terms are distributed
B. Its predicate term is distributed, while its subject term is not
C. Its subject term is distributed, while the predicate term is not
D. Its quantity is particular and quality is affirmative
E. None

_____23. In the traditional squares of opposition if the propositions **E** and **O** are false, what is the truth value of **A** and **I** propositions respectively?
A. True and True
B. True and Undetermined
C. False and False
D. True and False
E. False and True

_____24. Dr. Joseph has argued that the open position in the mathematics department should be given to Dr. Hassen. But Joseph's arguments should be discounted since Joseph and Hassen are actually close friends. *This passage commit a fallacy of*
A. Ad hominem (abusive)
B. Ad hominem (circumstantial)
C. Straw man
D. Red herring
E. Ad hominem (you too)

_____25. From Boolean stand point, an argument with a premise of "A" proposition and conclusion "I" commit existential fallacy. *The logic behind this is?*
A. The conclusion contains more information than a premise do
B. The conclusion imports existence of entities unrecognized in the premise
C. The premise and conclusion are logically contradictory
D. The premise and conclusion do not assert exactly the same thing
E. All except C
F. A & B are correct

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32. After centuries of trying, no one has been able to show that reincarnation does not occur. Therefore, reincarnation occurs. *The fallacy committed is*:
A. Appeal to Ignorance
B. Appeal to force
C. Accident
D. Hasty generalization
E. Post hoc ergo propter hoc

33. In modern squares of opposition, existential fallacy is occurs when?
A. A conclusion lacking existential import is drawn from the premise implying existence
B. Universal conclusion is drawn from particular Premise
C. A conclusion implying existential import is drawn from a premise that lacks it
D. A particular conclusion derived from particular premise
E. All are correct

34. One of the following argument commits existential fallacy both from Boolean and Aristotelian stand point :
A. All presidents are academicians. Thus, some presidents are academicians
B. No singers are artists. Hence, some singers are not artists
C. All flying zebras are animals. thus, some flying zebras are animals
D. All flying zebras are animals. Thus, it is false that some flying zebras are not animals
E. A & C are correct

35. Engineer Johnson noted that: "I leave my house in New York City and cash of 5 million $ for my children Catherina and David". We can conclude that Catherina gets the house and David 5 million $. *The passage commit a fallacy of*:
A. Missing the point
B. Appeal to People
C. Amphiboly
D. Suppressed Evidence
E. Equivocation

36. The only academic institution dedicated to innovative knowledge in Ethiopia is ASTU. If not, how ASTU used to have a motto: "we are dedicated to innovative knowledge"? *This passage commits a fallacy of*:
A. Appeal to people
B. Equivocation
C. Amphiboly
D. Begging the question
E. Complex question

37. If both quality and quantity of a proposition: "***Some franchises are money-makers***" is changed, the resulting proposition is:
A. All franchises are not money-makers
B. Some franchises are money-makers
C. All franchises are money-makers
D. No franchises are money-makers
E. Some franchises are not money-makers

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Part I: Determine whether the following questions are True or False

_____1. Inductive argument with actually true premise and true conclusion is always strong.
_____2. Cogent argument is all instances of good inductive argument.
_____3. Arguments sometimes contain statements that are neither premises nor conclusions.
_____4. Stipulative definition can be used to coin secret codes.
_____5. An argument that commits a fallacy of false dichotomy is always valid.
_____6. In Universal proposition copula is a quality indicator as well.
_____7. Formal fallacies occur only in deductive argument.
_____8. The operation of conversion commits a fallacy of "illicit conversion" on E&I proposition.
_____9. Quality and quantity are the attributes of terms while distribution is of a proposition.
_____10. Relating two categories is sufficient condition for standard form categorical proposition

Part II: Use the traditional square of opposition to determine whether following immediate inferences are **Valid** or **invalid**.

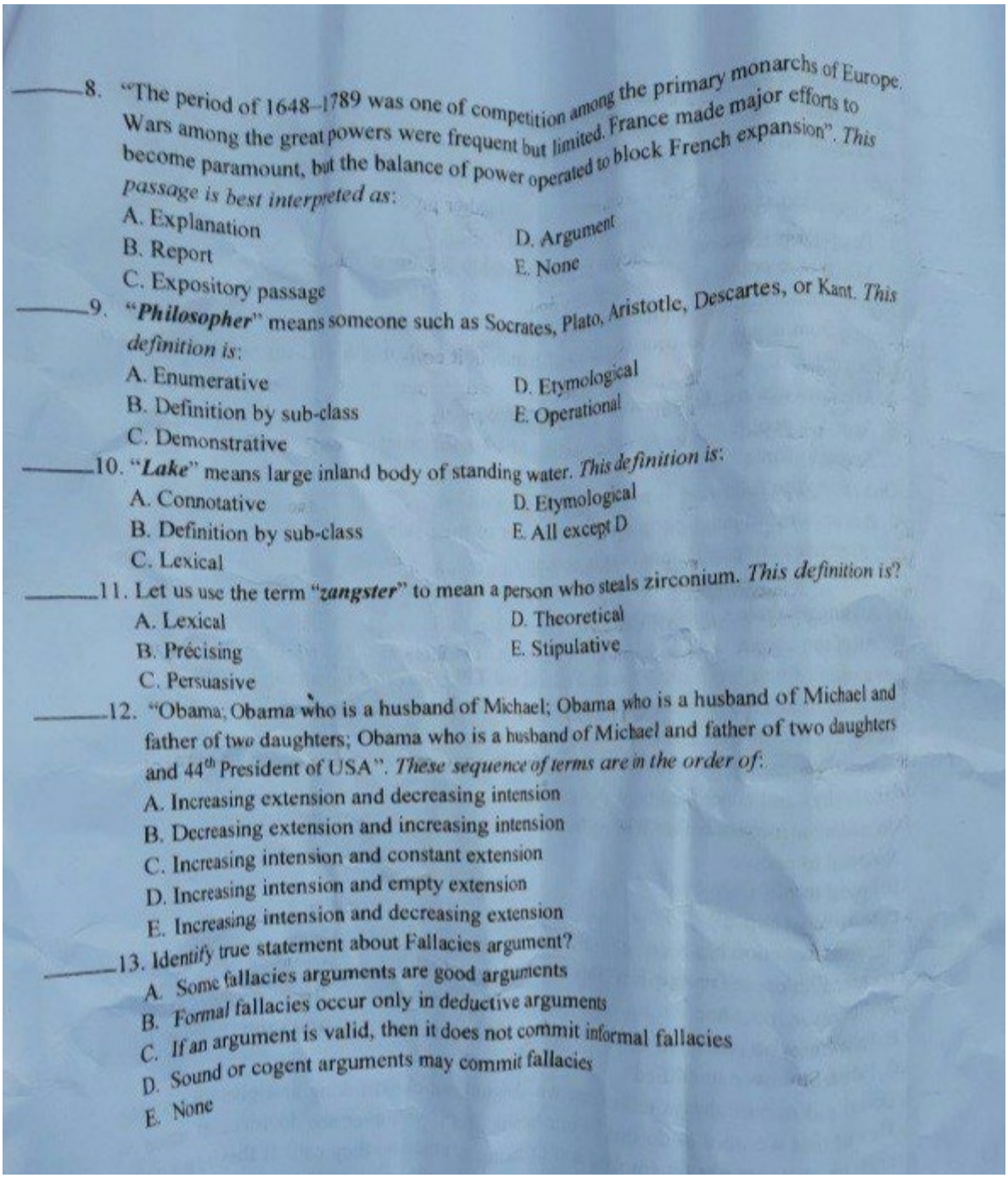
_____1. Some feminists are advocates of equal pay for equal work. Thus, it is false that no feminists are advocates of equal pay for equal work.
_____2. Some African presidents are not academicians. As a result, it is false that no African presidents are academicians.
_____3. All Ethiopians athletes are gold medalist. Thus, some Ethiopian athletes are gold medalist.
_____4. No African politicians are good person. As a result, it is false that all African politicians are good person.
_____5. Some mosquitoes are evil beings. Therefore, it is false that no mosquitoes are evil beings.

Part III: Choose the best answer among the given alternatives and write down on the space provided (1 pt. each)

_____6. An argument that proceeds from the knowledge of selected sample to the claim about the whole group is:
A. Inductive generalization
B. Causal inference
C. Argument from analogy
D. Argument based on sign
E. argument from definition

_____7. "Either Bill Clinton or George W. Bush was president of USA when the World Trade Center towers were destroyed. But Bush was not president at a time. Therefore, Bill Clinton was a president when those buildings were destroyed". *Correct evaluation this argument is?*
A. Inductive, Strong
B. Inductive, Weak
C. Deductive, valid
D. Deductive, Invalid
E. Deductive, Strong

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_____8. "The period of 1648–1789 was one of competition among the primary monarchs of Europe. Wars among the great powers were frequent but limited. France made major efforts to become paramount, but the balance of power operated to block French expansion". *This passage is best interpreted as*:

A. Explanation
B. Report
C. Expository passage
D. Argument
E. None

_____9. "***Philosopher***" means someone such as Socrates, Plato, Aristotle, Descartes, or Kant. *This definition is*:

A. Enumerative
B. Definition by sub-class
C. Demonstrative
D. Etymological
E. Operational

_____10. "***Lake***" means large inland body of standing water. *This definition is*:

A. Connotative
B. Definition by sub-class
C. Lexical
D. Etymological
E. All except D

_____11. Let us use the term "***zangster***" to mean a person who steals zirconium. *This definition is*?

A. Lexical
B. Précising
C. Persuasive
D. Theoretical
E. Stipulative

_____12. "Obama; Obama who is a husband of Michael; Obama who is a husband of Michael and father of two daughters; Obama who is a husband of Michael and father of two daughters and 44th President of USA". *These sequence of terms are in the order of*:

A. Increasing extension and decreasing intension
B. Decreasing extension and increasing intension
C. Increasing intension and constant extension
D. Increasing intension and empty extension
E. Increasing intension and decreasing extension

_____13. Identify true statement about Fallacies argument?

A. Some fallacies arguments are good arguments
B. Formal fallacies occur only in deductive arguments
C. If an argument is valid, then it does not commit informal fallacies
D. Sound or cogent arguments may commit fallacies
E. None

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