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8. A non-argument expression that consists of statements about a certain subject combined with instances intended to show that the way or why something is what it is, is:
   A. Illustration
   B. Explanation
   C. Expository
   D. Loosely Associated Statements
9. Since 4x + 10 is 35, X is 5. *The argument is:*
   A. A Valid Deductive Argument
   B. An Invalid Deductive Argument
   C. A Strong Inductive Argument
   D. Weak Inductive Argument
10. "If you work hard, then you will score A. Thus, you would not score A, because you do not work hard." Let the antecedent and consequent are represented by X&Y, respectively, which of the following correctly expresses the form of this argument?
   A. If X then Y.
      X
      So, Y
   B. Not Y
      Not X
      So, if X then Y
   C. If X then Y.
      Not X
      So, not Y
   D. If X then Y
      Not Y
      So, not X

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III. From The Following Types of Deductive and Inductive Forms of Argumentation, Choose the Correct One and Write It in the Provided Answer Sheet. (2pts. each)

A. Valid, sound
B. Valid, unsound
C. Invalid, unsound
D. Strong, cogent
E. Strong, uncogent
F. Weak, uncogent

1. Statistics reveal that 85% of population of Ethiopia is leading rural life. Hence, the majority of the people of Ethiopia are still agrarian.
2. In Bahir Dar city, it is said that every resident who owns a red car is a doctor. Alemitu, a resident of Bahir Dar city owns a red car. Therefore, Alemitu must be a doctor.
3. The Ethiopian government has consistently been able to maintain peace in the capital, Addis Ababa, without significant conflict. Since Addis Ababa is the political and economic hub of the country, this must mean that the government has effectively maintained peace and unity throughout the entire country.
4. The Ethiopian government has invested heavily in infrastructure projects like the GERD and transportation networks. These projects are expected to boost energy production, improve connectivity, and stimulate economic growth. Therefore, they are likely to contribute positively to Ethiopia's economic development.

Answer sheet

Name [redacted]

I. True/False (1 pt. each)		II. Multiple Choice (1.5 pts. each)			
1. True	5. True	1. C	4. D	7. C	10. B
2. True	6. false	2. A	5. B	8. D	
3. false	7. false	3. B	6. C	9. A	
4. False					

III. Argument Evaluation (2 pts. each)

1. strong, cogent 2. Valid, sound 3. Valid, unsound 4. strong, cogent

Bahir Dar University

Critical Thinking (LoCT 1011) Mid Exam for Natural Science Freshman Students

Total Weight: - (30%) **Time Allotted: 50 Mins.** **Jan. 2025**

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I. Write True if the Statement is Correct and False if It is Incorrect (1pt each)

1. According to rationalism senses alone cannot provide universal, valid judgments that are consistent with one another.
2. Both valid and invalid arguments could be unsound and conversely unsound arguments could be either valid or invalid.
3. In deductive argument, it is intended that the conclusion contain more information than the premises.
4. Metaphysics is the branch of philosophy that studies the nature, scope, meaning, and possibility of knowledge.
5. An inferential claim is necessary to determine whether an argument is valid or invalid.
6. Ontology is the study of the origin and development of the universe.
7. In inductive arguments, the conclusion is only confirmed, not supported by the premise(s).

II. Choose the Correct Answer among the Given Alternatives (1.5 pts. each)

1. Hemoglobin is endogenous with humans. Therefore, it is manufactured in side human body.
   A. Argument from a certain sign
   B. Argument from authority
   C. Argument from definition
   D. Argument based on analogy
2. Identify the statement which is an argumentative.
   A. Man is mortal because everyone dies at some point and nobody lives forever.
   B. I am having a party at my place. Thus, please come and enjoy.
   C. If X is Y and Y is Z, then X is also Z.
   D. For many eyewitnesses testified so, the number of people killed in yesterday's attack is fifteen.
3. Since Amina does not wear a hijab, she is not a Muslim. *This argument is,*
   A. Valid Deductive Argument
   B. An Invalid Deductive Argument
   C. A Strong Inductive Argument
   D. A Weak Inductive Argument
4. Which one of the following is wrongly matched?
   A. Political Philosophy- Civil society
   B. Ethics- Moral standards
   C. Aesthetics - Beauty
   D. Logic - Value
5. Which branch of philosophy is wrongly correlated with a question of interest?
   A. Metaphysis- Is the universe's origin accidental or a result of grand design?
   B. Epistemology- How best wealth can be distributed between and within states?
   C. Logic- What is an argument?
   D. Ethics-Where did our concepts of rightness and wrongness come from?
6. Which branch of philosophy deals with differences in human tastes and sentiments over artistic works?
   A. Metaphysics
   B. Epistemology
   C. Aesthetics
   D. Social Philosophy
7. Abebe is a professor in philosophy and he told me that philosophy is more of an art than a science. In view of professor Abebe, philosophy is an art and not essentially a science. This argument is:
   A. Deductive – from definition
   B. Inductive – based on analogy
   C. Inductive- from authority
   D. Deductive – syllogistic

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