

Wachemo University  
College of Social Science and Humanities  
Department of Civics and Ethical Studies  
**Logic and Critical thinking Mid-Exam for freshman students**  
Weight: 50%  
Time allowed: 40

Name \_\_\_\_\_ IDNO \_\_\_\_\_ Dep,t LOCT sec 11

**PART I: Choose the Best from the Given Alternatives (1.5 point for each)**

1. What is an argument in the context of logic and critical thinking?  
A. A discussion where people express their opinions without evidence.  
**B.** A form of reasoning that presents premises to support a conclusion.  
C. A series of statements aimed at persuading someone.  
D. A verbal fight between two individuals.
2. Which of the following is an example of an inductive argument?  
**A.** If it's raining, then the ground is wet. The ground is wet, so it must be raining.  
B. Every time I eat peanuts, I feel sick. Therefore, peanuts make me sick.  
C. All mammals have hair. Whales are mammals. Therefore, whales have hair.  
D. All humans are mortal. Socrates is human. Therefore, Socrates is mortal.
3. What distinguishes a deductive argument from an inductive argument?  
**A.** Deductive arguments use anecdotal evidence, while inductive arguments use statistical data.  
**B.** Deductive arguments rely on probability, while inductive arguments rely on certainty.  
**C.** Deductive arguments always lead to true conclusions, while inductive arguments may lead to false conclusions.  
**D.** Deductive arguments draw conclusions based on general principles, while inductive arguments draw conclusions based on specific observations.
4. Last week I bought a new jeans with a tag that reads "Made in China". Thus, my new jeans were made in china.  
A. Deductive, valid  
**B.** Inductive ,strong  
C. Deductive ,invalid  
D. Inductive ,weak
5. The reason poverty is rising worldwide is that the global economy has made it impossible for countries to provide stable working condition for its citizen. This passages can be identified:  
A. Argument  
**B.** Explanation  
C. Report  
D. Illustration
6. Shouting fire in a theater creates a clear and present danger and is not protected by the right to free speech. Expressing ideas that might harm the war effort creates a clear and present danger. Thus, expressing ideas that might harm the war effort is not protected by the right to free speech. It is identified as:  
**A.** Deductive argument  
B. Report  
**C.** Inductive argument  
D. Explanation
7. Which one of the following is deductive argument?  
A. If an organism is a plant, then it performs photosynthesis. This organism performs photosynthesis. Therefore, this organism is a plant.  
B. The captain navigates a ship through rough waters to reach its destination safely. Thus, a Chief Executive Officer steers a company through challenges to achieve long-term success.  
C. There is mess and graffiti in the neighborhood. Therefore, there is lack of community pride and engagement.  
D. There is the rapid technological advancement and consumer demand. Hence, it is expected that electric vehicles will dominate the automotive market within the next decade.
8. Which one of the following is an argument?  
A. If people are not free, then they cannot be held morally responsible for their actions.  
**B.** People are not free. Those who think they are free are hopelessly naive. People are no more able to control their own destinies than are ants, and it's just anti-scientific to say so.  
C. War is wrong because it involves killing innocent people and that is always wrong. X



- D. Whole numbers can be represented as fractions. Thus, 2 can be represented as  $8/4$ , and 5 can be represented as  $15/3$ . \*
9. Empiricism asserts that knowledge comes primarily from:
- Abstract reasoning and philosophical contemplation
  - Divine revelations and spiritual experiences
  - Innate ideas and logical deduction
  - Sensory experiences and observation of the natural world
10. Which one false about valid deductive arguments?
- The conclusion follows necessarily from the premises.
  - It is possible for all the premises to be true and the conclusion false.
  - It is logically inconsistent to assert the premises and deny the conclusion
  - If the premises are true, then the conclusion must be true.
11. Philosophy, as an academic discipline, has its own salient features that distinguish it from other academic disciplines can't include:
- being systematic
  - its rigidity
  - its logicality
  - flexible approach
12. Metaphysical questions consists in the study of theories about the origin, nature, and development of the universe as an orderly system refers
- Ontology
  - Theology
  - Cosmology
  - Anthropology
13. Which one of the following is a weak inductive argument?
- According to the National Weather Service, there is a 10 percent chance of rain today. Therefore, probably it will rain today.
  - Almost all college students own MP3 players. Andy is a college student. So, Andy probably owns an MP3 player. *studs*
  - Most U.S. presidents have been married. Therefore, probably the next U.S. president will be a man.
  - No previous U.S. president has been a native Alaskan. So, the next U.S. president probably will not be a native Alaskan. *studs*
14. Which source of knowledge entails disclose behind the curtain?
- Empiricism
  - Intuition
  - authority
  - Revelation
  - Rationalism

**Part II: match column "A" with column "B"**

N o	<u>"A"</u>	<u>"B"</u>
15.	Light travels at a rate of 186,000 miles per second. The sun is more than 93 million miles distant from the earth. Therefore, it takes more than eight minutes for the sun's light to reach the earth.	A Argument of definition
16.	More Ethiopians die of skin cancer each year than die in car accidents. How do I know? My doctor told me.	B Argument of Mathematics
17.	John is a cardiologist. Therefore, John is a doctor.	C Prediction
18.	All dinosaur bones so far discovered have been more than sixty-five million years old. Therefore, probably all dinosaur bones are more than sixty-five million years old.	D Inductive Generalization
19.	Selam is a graduate of Addis Ababa University, and she is bright, energetic, and dependable. Mary is a graduate of Addis Ababa University, and she is bright, energetic, and dependable. Samira is a graduate of Addis Ababa University. Therefore, most likely, Samira is bright, energetic, and dependable, too.	E Analogy
20.	Most U.S. presidents have been tall. Therefore, probably the next U.S. president will be tall.	F Statistical argument
		G Argument of Authority

**ANSWER SHEET**

1. B  
2. A  
3. D  
4. BAB  
5. B

6. C  
7. A  
8. BC  
9. D  
10. B

11. B  
12. C  
13. A  
14. D  
15. S

16. G  
17. A  
18. F  
19. E  
20. DC

