

### Instructions (shown before students start the test)

Please answer the questions as well as you can. This is a noncompetitive practice test meant to give an understanding of the topics and types of questions you might see in the future and gain familiarity with Scilympiad.

### Introduction (shown after students start the test)

1. (1.00 pts) The 1918 Spanish Flu outbreak that killed 20- 50 million people world-wide.

- A) Sporadic Outlook
- B) Pandemic Outbreak
- C) Epidemic Outbreak
- D) Endemic level
- E) Hyperendemic Level

2. (1.00 pts) According to a 2014 WHO report, the level of malaria in the African nations of Nigeria, Mozambique and Tanzania was greater than 100 cases per 1000 population.

- A) Sporadic Outbreak
- B) Pandemic Outbreak
- C) Epidemic Outbreak
- D) Endemic level
- E) Hyperendemic level

3. (1.00 pts) The number of individuals with influenza that occur each year during the winter months in Ohio.

- A) Sporadic Outbreak
- B) Pandemic Outbreak
- C) Epidemic Outbreak
- D) Endemic level
- E) Hyperendemic Level

4. (1.00 pts) In 1977 in Zaire, an outbreak of Ebola kills one person and then disappears. In May 2011 a single individual dies of Sudan virus and no one else gets infected.

- A) Sporadic Outbreak
- B) Pandemic Outbreak
- C) Epidemic Outbreak
- D) Endemic level
- E) Hyperendemic Level

5. (1.00 pts) A false relationship may lead to what type of error?

- (Mark ALL correct answers)
- A) Confounding error
  - B) Random Error
  - C) Bias

D) Systemic Error

**6. (1.00 pts)** Which of the following is a good statistical test for the presence of the type of error in the preceding question above?

- A) Variance
- B) Chi Square
- C) Cochran-Mantel Haenszel
- D) Fischers Exact Test

**7. (1.00 pts)** Increasing a sample size reduces what type of error?

(Mark **ALL** correct answers)

- A) Confounding Error
- B) Random Error
- C) Bias
- D) Systemic Error

**8. (1.00 pts)** In a study studying to determine whether coffee is a risk factor for pancreatic cancer, cigarette smoking would be a \_\_\_\_\_.

- A) Confounding error
- B) Random Error
- C) Bias
- D) Systemic Error

**9. (1.00 pts)** What type of error occurs when there is a difference between the true value (population) and the observed value of the sample?

- A) Confounding Error
- B) Random Error
- C) Bias
- D) Systemic Error

**10. (1.00 pts)** The current s outbreak of Coronavirus is very similar to which outbreak in 2003 from the same country?

- A) SARS
- B) Ebola
- C) Bubonic Plague
- D) West Nile Virus
- E) Dengue

**11. (1.00 pts)** For the public health approach to healthcare, the primary role is diagnosis and treatment of illness in individuals.

- True
- False

**12. (1.00 pts)** Edward Sydenstricker is considered the father of epidemiology because he formalized standards to identify organisms with infectious disease

True  False

**13. (2.00 pts)** In the definition of epidemiology, “distribution” refers to:

(Mark **ALL** correct answers)

- A) Who
- B) When
- C) Where
- D) Why

**14. (2.00 pts)** What term do epidemiologists use for this systematic collection, analysis, and interpretation of health data on an ongoing basis?

Well Done!. Remember to join the virtual meeting to talk with some of the supervisors.