

Public Health Essentials

Public Health · Answer Key · 15 Questions

1. Which of these scientists is credited with developing the first successful vaccine, which targeted smallpox?

- A) Louis Pasteur
- B) Edward Jenner**
- C) Jonas Salk
- D) Joseph Lister

2. What is the primary public health purpose of adding fluoride to community drinking water?

- A) To kill harmful bacteria
- B) To remove heavy metals
- C) To prevent tooth decay**
- D) To improve water taste

3. In the history of sanitation, who proved that cholera was spread through contaminated water rather than 'miasma' or bad air?

- A) John Snow**
- B) Florence Nightingale
- C) Robert Koch
- D) Ignaz Semmelweis

4. What is the 'herd immunity' threshold typically referring to in epidemiology?

- A) The number of doctors needed in a city
- B) The percentage of a population that must be immune to stop disease spread**
- C) The amount of medicine stored in a pharmacy
- D) The speed at which a virus mutates

5. Which global organization leads the coordination of international public health responses and disease tracking?

- A) UNICEF
- B) The Red Cross
- C) World Health Organization**
- D) Doctors Without Borders

6. What process, named after a famous microbiologist, involves heating liquids to a specific temperature to kill pathogens?

- A) Sterilization
- B) Distillation
- C) Pasteurization**
- D) Chlorination

7. What is the most effective public health method for preventing the spread of many infectious diseases like the common cold or influenza?

- A) Wearing sunglasses
- B) Frequent handwashing with soap**
- C) Eating citrus fruits
- D) Taking vitamin supplements

8. Which nutrient deficiency, often addressed through public health fortification programs, causes goiter?

- A) Vitamin C
- B) Iron
- C) Iodine**
- D) Calcium

9. What does the term 'vector' refer to in the context of disease transmission?

- A) An air-conditioned room
- B) A living organism that transmits a pathogen**
- C) A type of medical mask
- D) The genetic code of a bacteria

10. Which type of pathogen is responsible for the disease Malaria, which is transmitted by Anopheles mosquitoes?

- A) Parasite**
- B) Bacteria
- C) Fungus
- D) Prion

11. The 1918 influenza pandemic is a major focus of public health studies; what does it highlight about global health?

- A) The importance of air travel
- B) The speed of transmission in a connected world**
- C) The benefit of antibiotics
- D) The danger of polluted soil

12. What public health practice involves tracking the patterns and causes of diseases in populations?

A) Epidemiology

B) Pharmacology

C) Genetics

D) Radiology

13. Which disease was declared globally eradicated by the World Health Organization in 1980?

A) Polio

B) Smallpox

C) Measles

D) Tuberculosis

14. What is the primary function of a 'quarantine' in a public health emergency?

A) To treat infected patients

B) To restrict the movement of exposed individuals

C) To clean public buildings

D) To manufacture new vaccines

15. In the context of public health, what is a 'fomite'?

A) An infected animal

B) A gaseous pollutant

C) An inanimate object that can carry infection

D) A type of blood cell