

Question 36
Benchmark A
9th Practice Test

Our country depends on energy use. Choose one alternative energy source from among wind power, nuclear power, geothermal power and biomass. Identify your choice and describe one potential benefit and one potential disadvantage if its use is significantly increased. Respond in the space provided in your **Answer Document**. (2 points)

Question 1
Benchmark C
9th Practice Test

A scientist's paper is rejected by a journal because the paper did **not** reveal key details about the experiment she performed to get her results. What ethical argument could the editor give for this rejection?

- A. Sample collection had been done by a graduate student.
- B. The scientist's findings were similar to results reported for other species.
- C. The scientist had repeated her experiment several times with identical results.
- D. Other scientists would not be able to verify her findings without more information.

10th Grade Science Ohio Graduation Test
Scientific Ways of Knowing

Question 10
Benchmark D
Spring 2005

When a medical technician analyzes human body fluids such as blood, which safety precaution would **not** be necessary?

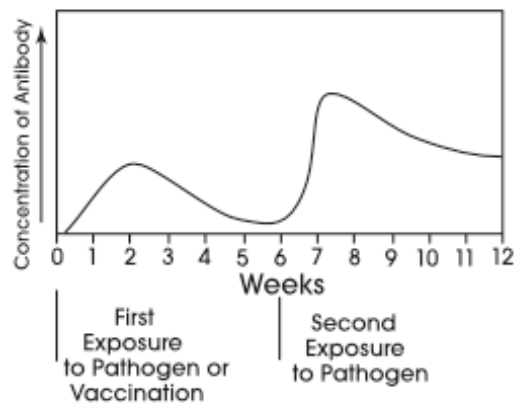
- A. protective gloves
- B. safety goggles/face shield
- C. closed-toed shoes
- D. lead-lined apron

Question 36
Benchmark D
Spring 2005

A medical researcher is investigating immune response in patients exposed to a specific pathogen. The graph below shows the concentration of a particular antibody in the bloodstream produced during the process of acquired immunity. One curve shows the primary immune response (after the first exposure to the pathogen), and the other curve shows the secondary immune response (after the second exposure to the pathogen).

A vaccination serves as the first exposure to a pathogen and triggers the body's primary immune response. Some vaccines contain weakened or inactive pathogens. Other vaccines contain highly similar but nonpathogenic forms.

Concentration of Antibody in Primary and Secondary Acquired Immune Response



36. Describe two benefits of receiving a vaccine, such as the polio vaccine, in protecting the body against disease, and include data from the graph to support each benefit. Respond in the space provided in your **Answer Document**. (4 points)