

Which of the following best describes the harmful effects experienced by Mollie and her colleagues due to radium poisoning?

- A) Painful limbs and jaw bone
- B) Nausea and vomiting
- C) Difficulty breathing and chest pain
- D) Loss of appetite and fatigue

What did Marie Curie contribute to the study of radioactivity?

- A) She discovered uranium emitting radiation
- B) She coined the term 'radioactivity'
- C) She invented Undark paint
- D) She researched the dangers of radioactivity in toys

Which type of radiation is the most damaging to DNA and other molecules it comes into contact with?

- A) Alpha particles
- B) Beta particles
- C) Gamma radiation
- D) All types of radiation have equal damage potential

What led to the establishment of labor laws to protect workers from unsafe conditions?

- A) The discovery of radioactivity by Henri Becquerel
- B) The harmful effects experienced by Mollie and her colleagues due to radium poisoning
- C) The invention of Undark paint by Sabin A. von Sochocky
- D) The research conducted by Marie Curie on radioactivity

Which of the following is NOT a beneficial use of radiation mentioned in the text?

- A) Locating and destroying tumors in the body
- B) Studying matter, plants, and animals
- C) Generating electricity in nuclear power plants
- D) Sterilizing food and nonstick cookware

What happens when the nucleus of an atom becomes too big?

- A) It becomes stable and releases radiation
- B) It becomes unstable and releases radiation
- C) It loses its atomic number
- D) It transforms into a different element

Which inventor died from aplastic anemia as a result of working with radioactivity?

- A) Amelia 'Mollie' Maggia
- B) Henri Becquerel
- C) Sabin A. von Sochocky
- D) Marie Curie

What is the role of radiation in medical tests and treatments?

- A) To locate and destroy tumors in the body
- B) To study matter, plants, and animals
- C) To generate electricity in nuclear power plants
- D) To sterilize food and nonstick cookware

What are the three types of radiation mentioned in the text?

- A) Alpha particles, beta particles, and gamma rays
- B) Protons, neutrons, and electrons
- C) Uranium, radium, and lead
- D) Smoke detectors, medical diagnosis, and cancer treatments

How did the misuse of radioactivity affect inventors and scientists who worked with it?

- A) They suffered from aplastic anemia
- B) They developed bladder cancer
- C) They experienced painful limbs and jaw bone
- D) They died from various illnesses

What were some of the products that incorporated radioactive elements in the early 20th century?

- A) Glow-in-the-dark watches and health tonics
- B) Chocolate and toys
- C) Mud for the skin and health tonics
- D) Toys and mud for the skin

Which type of radiation is less damaging than alpha particles but more damaging than gamma radiation?

- A) Alpha particles
- B) Beta particles
- C) Gamma radiation
- D) All types of radiation have equal damage potential

What are some examples of everyday products that contain small amounts of radiation?

- A) Smoke detectors and watches
- B) Sterilized food and nonstick cookware
- C) Smoke detectors and sterilized food
- D) Watches and nonstick cookware

What is the real danger of radioactivity?

- A) The release of unstable atomic nuclei
- B) The emission of alpha particles
- C) The ionizing radiation released by certain elements
- D) The decay of radium in bones

What led to legal action against the US Radium Corporation and the Radium Dial Company?

- A) The harmful effects experienced by Mollie and her colleagues due to radium poisoning
- B) The invention of Undark paint by Sabin A. von Sochocky
- C) The research conducted by Marie Curie on radioactivity
- D) The discovery of radioactivity by Henri Becquerel