## **Uttarakhand Board**

## Class 10 | English

## CHAPTER-6 | The Making of a Scientist

OUIZ-01



- 1. What marked the beginning of Richard Ebright's journey into the world of science?
  - A. His school science fair
  - B. Collecting rocks and fossils
  - C. Reading The Travels of Monarch X
  - D. Observing stars with a telescope

**Explanation:** The Travels of Monarch X inspired Ebright to explore butterfly migrations, sparking his interest in science and experiments.

- 2. How did Richard Ebright's mother support his scientific curiosity?
  - A. By enrolling him in science fairs
  - B. By providing tools and equipment for learning
  - C. By taking him to scientific conferences
  - D. By introducing him to famous scientists

**Explanation:** Ebright's mother provided telescopes, microscopes, and books, fostering his passion for learning and scientific exploration.

- 3. What was the purpose of tagging butterflies in Ebright's early experiments?
  - A. To identify their habitats
  - B. To study butterfly diseases
  - C. To understand butterfly migration patterns
  - D. To test the effects of insect hormones

**Explanation:** Tagging butterflies was part of a study on monarch butterfly migration, guided by Dr. Urguhart's research initiative.

- 4. Why did Ebright feel disappointed at his first science fair?
  - A. His display was not neat enough
  - B. He didn't perform a real experiment
  - C. His slides of frog tissues were incorrect
  - D. He didn't collect enough data

(B)

- **Explanation:** Ebright realized that the winners conducted real experiments, unlike his display of frog tissue slides under a microscope.
- 5. What was the focus of Ebright's eighth-grade science project?
  - A. Tagging monarch butterflies
  - B. Investigating a disease affecting monarch caterpillars
  - C. Testing the chemical structure of hormones
  - D. Comparing monarchs and viceroys (B)
- **Explanation:** His project explored a viral disease affecting monarch caterpillars, demonstrating his commitment to real scientific experimentation.

- 6. What did Ebright discover about the gold spots on a monarch pupa?
  - A. They were ornamental

(C)

- B. They served as a defense mechanism
- C. They produced a hormone vital for development
- D. They helped monarchs migrate
- **Explanation:** Ebright's research proved that the gold spots secreted a hormone crucial for the butterfly's full development.
- 7. What significant discovery did Ebright make during his junior year in college?
  - A. The process of DNA fingerprinting
  - B. A theory on how cells read DNA blueprints
  - C. The lifecycle of monarch butterflies
  - D. The cure for butterfly viral diseases (B)
- **Explanation:** Ebright's observations of X-ray photos, combined with earlier findings, led to a groundbreaking theory on cell function.
- 8. What qualities does the chapter suggest are essential for becoming a scientist?
  - A. Intelligence, curiosity, and will to win for the right reasons
  - B. Hard work, competitiveness, and academic excellence
  - C. Observational skills, patience, and mentorship
  - D. Passion, persistence, and creativity
- Explanation: Ebright's success was attributed to his intellect, curiosity, and desire to achieve for the right reasons, as highlighted in the chapter.
- 9. What was the conclusion of Ebright's project on viceroy butterflies?
  - A. Viceroys taste better than monarchs
  - B. Birds avoid viceroys due to their resemblance to monarchs
  - C. Monarchs copy viceroy butterflies for protection
  - D. Viceroys and monarchs have the same taste to birds (B)
- **Explanation:** Ebright confirmed the theory that viceroys mimic monarchs to avoid predation by birds.
- 10. How did Richard Ebright balance his scientific pursuits with other activities?
  - A. He avoided extracurricular activities
  - B. He excelled in debating, photography, and outdoor sports
  - C. He focused entirely on academics
  - D. He devoted all his time to experiments (B)
- **Explanation:** Alongside his scientific endeavors, Ebright was an accomplished debater, photographer, and outdoorsman, demonstrating a well-rounded personality.