

1

**Question:** What is the primary focus of the scientific method?

- A) Promoting subjective interpretations
- B) Relying on anecdotal evidence
- C) **Testing ideas and drawing evidence-based conclusions**
- D) Encouraging speculation without experimentation

**Correct Answer:** C

2

**Question:** Which scientific breakthrough revolutionized medicine and saved countless lives?

- A) Formulation of the theory of relativity
- B) **Discovery of penicillin**
- C) Invention of the telescope
- D) Development of the internet

**Correct Answer:** B

3

**Question:** How does the text describe the relationship between different scientific disciplines?

- A) Isolated and independent
- B) **Interconnected and collaborative**
- C) Hierarchical and rigid
- D) Competitive and mutually exclusive

**Correct Answer:** B

4

**Question:** What role does technology play in scientific research?

- A) It hinders progress by introducing complexity.
- B) **It enhances our ability to explore and understand the universe.**

C) It is irrelevant to modern scientific advancements.

D) It replaces the need for human researchers.

**\*\*Correct Answer:\*\* B**

5

**\*\*Question:\*\*** How does science impact society according to the text?

A) It has minimal influence on daily life.

B) It primarily benefits a select group of individuals.

C) **\*\*It shapes public policy, healthcare decisions, and economic growth.\*\***

D) It creates divisions between people with different beliefs.

**\*\*Correct Answer:\*\* C**

6

**\*\*Question:\*\*** What is the main idea conveyed in the concluding paragraph?

A) Science is a finite field with limited potential for future exploration.

B) **\*\*Science is a remarkable journey of understanding and discovery with the power to shape the future.\*\***

C) Science is primarily concerned with theoretical concepts and has little practical application.

D) Science is a static body of knowledge that remains unchanged over time.

**\*\*Correct Answer:\*\* B**

7

**\*\*Question:\*\*** What is science often described as in the introductory paragraph?

A) A random collection of facts

B) **\*\*The pursuit of knowledge and a systematic approach to understanding the natural world\*\***

C) A complex and inaccessible field of study

D) A purely theoretical discipline with no practical applications

**\*\*Correct Answer:\*\* B**

8

**Question:** What does the text highlight as crucial for inspiring future generations of scientists?

- A) Emphasizing rote memorization of scientific facts
- B) Discouraging questioning and critical thinking
- C) **Encouraging curiosity, critical thinking, and STEM education**
- D) Limiting exposure to scientific concepts until adulthood

**Correct Answer:** C

9

**Question:** What example is given of interdisciplinary collaboration leading to groundbreaking innovations?

- A) Astronomy and astrology combining to predict the future
- B) **Biochemistry merging biological and chemical principles to explore the molecular mechanisms of life**
- C) Geology and physics merging to create perpetual motion machines
- D) Psychology and sociology combining to control human behavior

**Correct Answer:** B

10

**Question:** What did Albert Einstein's theory of relativity reshape our understanding of?

- A) The origin of life
- B) The composition of the Earth's atmosphere
- C) **Space and time**
- D) The behavior of subatomic particles

**Correct Answer:** C