



**WRITTEN WORK ACTIVITY IN SCIENCE, TECHNOLOGY AND SOCIETY ABOUT CLIMATE CHANGE**  
**1<sup>ST</sup> SEMESTER A.Y. 2024-2025**

**General Instructions:** Read and understand each question designed to help you reflect on important ideas of the chapters we have discussed. Choose the best answer.

**1-2. A city experiences a rise in respiratory illnesses due to increased air pollution. This scenario demonstrates the connection between:**

- A. Environment and health only.
- B. Society and environment only.
- C. Society, environment, and health.
- D. None of the above.

**3-4. Deforestation in the Amazon rainforest disrupts the global water cycle. This is an example of how:**

- A. Climate change impacts the environment.
- B. Environmental changes impact society.
- C. Society's actions impact health.
- D. Health concerns drive environmental changes.

**5-6. Rising sea levels threaten coastal communities, forcing relocations and economic hardship. This situation highlights the:**

- A. Economic impact of climate change only.
- B. Geopolitical impact of climate change only.
- C. Interconnectedness of all three objectives.
- D. Meteorological impact of climate change only.

**7-8. A government implements stricter air quality regulations to protect public health. This action reflects an understanding of the link between:**

- A. Society and the environment.
- B. Environment and the economy.
- C. Economy and health.
- D. Health and geopolitics.

**9-10. Developing countries with limited resources often face the brunt of climate change impacts. This situation raises concerns about:**

- A. Economic disparity only.
- B. Geopolitical instability only.
- C. Both economic disparity and geopolitical instability.
- D. Neither economic disparity nor geopolitical instability.

**11-12. The primary contributor to global warming is the increase in atmospheric:**

- A. water vapor.
- B. oxygen.
- C. carbon dioxide.
- D. nitrogen.

**13-14. Deforestation contributes to climate change because trees:**

- A. Release harmful toxins into the air.
- B. Absorb and store carbon dioxide.
- C. Block sunlight from reaching the Earth's surface.
- D. Deplete the ozone layer.

**15-16. The burning of fossil fuels like coal and oil releases greenhouse gases, which:**

- A. Decrease Earth's overall temperature.
- B. Trap heat in the atmosphere.
- C. Have no significant impact on climate.
- D. Create holes in the ozone layer.

**17-18. Industrial agriculture practices, such as intensive use of fertilizers, contribute to climate change by releasing:**

- A. Methane.
- B. Carbon monoxide.
- C. Sulfur dioxide.
- D. Chlorofluorocarbons (CFCs).

**19-20. Which of the following is NOT a significant human activity contributing to climate change?**

- A. Deforestation
- B. Increased use of renewable energy sources
- C. Reliance on fossil fuels
- D. Industrial agriculture practices

**21-22. Rising sea levels due to climate change threaten coastal communities by:**

- A. Increasing tourism opportunities.
- B. Inundating low-lying areas.
- C. Creating more fertile land for agriculture.
- D. Reducing the risk of coastal erosion.

**23-24. More extreme weather events, like heat waves and droughts, are expected consequences of climate change. This can negatively impact:**

- A. Food security only.
- B. Water availability only.
- C. Energy production only.
- D. All of the above.



**25-26. Changes in global climate patterns can disrupt the migration patterns of animals, impacting:**

- A. Biodiversity only.
- B. The tourism industry only.
- C. Public health only.
- D. None of the above.

**27-28. Melting glaciers and polar ice caps contribute to rising sea levels and also disrupt:**

- A. Air travel routes.
- B. Ocean currents.
- C. Communication networks.
- D. Land transportation infrastructure.

**29-30. Climate change can lead to mass displacement of people due to rising sea levels, extreme weather events, and resource scarcity. This raises concerns about:**

- A. Economic hardship only.
- B. Geopolitical instability only.
- C. Both economic hardship and geopolitical instability.
- D. Neither economic hardship nor geopolitical instability.

**31-32. A community garden project in a low-income neighborhood provides fresh, healthy food while promoting social interaction. This initiative exemplifies the:**

- A. Environmental benefits of economic development.
- B. Societal benefits of environmental initiatives.
- C. Economic benefits of improved health.
- D. Health benefits of technological advancements.

**33-34. Increased use of public transportation in a city can reduce air pollution and traffic congestion. This demonstrates the:**

- A. Positive impact of societal changes on the environment.
- B. Negative impact of environmental degradation on society.
- C. Economic benefits of improved health outcomes.
- D. Health risks associated with technological advancements.

**35-36. Bioremediation, the use of living organisms to clean up environmental pollutants, highlights the potential for:**

- A. Technological solutions to environmental problems.
- B. Economic benefits of environmental regulations.
- C. Geopolitical implications of climate change.
- D. Health risks associated with societal changes.

**37-38. Stricter regulations on industrial waste disposal may increase production costs for companies. However, these regulations can also lead to a cleaner environment. This scenario highlights the:**

- A. Trade-off between economic growth and environmental protection.
- B. Health benefits associated with economic development.
- C. Geopolitical implications of resource scarcity.
- D. Societal costs of technological advancements.

**39-40. Public health campaigns promoting healthy eating habits can contribute to reducing greenhouse gas emissions from the livestock industry. This exemplifies the:**

- A. Interconnectedness of societal choices, environment, and health.
- B. Economic benefits of environmental regulations.
- C. Geopolitical implications of climate change.
- D. Health risks associated with technological advancements

**41-42. Certain industrial processes, such as cement production, release large amounts of carbon dioxide into the atmosphere. This is an example of a:**

- A. Direct human cause of climate change.
- B. Natural variation in the Earth's climate cycle.
- C. Positive feedback loop accelerating climate change.
- D. Technological solution for mitigating climate change.

**43-44. Methane, a potent greenhouse gas, is released from various sources. Which of the following is NOT a significant source of methane emissions?**

- A. Decomposition in landfills
- B. Rice cultivation
- C. Natural gas leaks from pipelines
- D. Livestock manure

**45-46. Certain human activities contribute to deforestation, which in turn reduces the Earth's ability to absorb carbon dioxide. This is an example of a:**

- A. Direct human cause of climate change.
- B. Natural variation in the Earth's climate cycle.
- C. Positive feedback loop accelerating climate change.
- D. Technological solution for mitigating climate change.

**47-48. While the sun's activity can influence Earth's climate, the current rate of climate change is primarily driven by:**

- A. Natural variations in solar activity.
- B. Increased human activities.
- C. Volcanic eruptions and asteroid impacts.
- D. Changes in Earth's orbit around the sun.

**49-50. Ocean acidification, caused by increased absorption of carbon dioxide from the atmosphere, can harm marine life such as coral reefs. This is an example of the:**

- A. Economic impact of climate change.
- B. Geopolitical impact of climate change.
- C. Biological impact of climate change.
- D. Meteorological impact of climate change