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Note: Answer the following questions using this format.

Lesson 1

INFORMATION AGE

APPLICATION

1. Aside from communication, what other aspects of society/are being influenced in the Information Age?

The Information Age has revolutionized the economy, education, healthcare, politics, and culture through digital advancements like automation, online learning, telemedicine, and social media, while also creating challenges such as misinformation and privacy risks. It has transformed how society operates, offering greater connectivity and efficiency but also introducing new vulnerabilities and societal shifts.

2. Is the advancement of information technology essential to our survival? Why or why not?

No, IT isn't essential for basic human survival, but it's crucial for modern society's functioning, supporting healthcare, food systems, and global infrastructure. Life would continue without it, but with severe disruptions.

Lesson 2

BIODIVERSITY AND HEALTHY SOCIETY

APPLICATION

1. Do you think Earth can exist without human beings taking care of it? Or does biodiversity also need human beings for it to be in a continuous growing process?

Earth can exist without humans, but biodiversity thrives better without human interference. Humans often harm ecosystems but can also aid conservation.

2. What are small ways that you think would promote safekeeping our biodiversity? What do you think are the common human activities that can harm biodiversity? What would be the results if these human activities are stopped and prohibited?

Small actions like planting native species, reducing plastic use, and supporting conservation help. Harmful activities include deforestation, pollution, and overfishing. Stopping them would restore ecosystems..

Lesson 3

GENETICALLY MODIFIED ORGANISMS:

Science, Health, and Politics

APPLICATION

1. How would you reconcile the advantages and disadvantages that GMOs bring to humans?

Advantages (higher yields, nutrition) must balance with risks (ecological impact, corporate control). Regulation ensures safety like proper labeling, proper introduction and such.

2. Is genetic engineering a pure scientific process or is it indeed an act of humans playing like God?

It's science, not "playing God," but ethics must guide its use to avoid crossing a line.

Lesson 4

THE NANO WORLD

APPLICATION

1. What are the factors that need to be considered before manufacturing materials through nanotechnology?

We need to consider the toxicity, environmental impact, and cost must be studied before production.

2. What are the contributions of nanotechnology for the improvement and sustainability of our environment?

Nanotechnology helps improve clean energy, pollution control, and sustainable materials.

Lesson 5

THE ASPECTS OF GENE THERAPY

APPLICATION

1. Would you subject yourself to gene therapy without its 100% assurance of effectiveness or future negative side effects?

Only if benefits outweigh risks for serious conditions, not for aesthetics.

2. Should gene therapy be limited to medical concerns only or could it be used for aesthetic purposes

Should prioritize health over cosmetic enhancements.

Lesson 6

CLIMATE CHANGE AND THE ENERGY CRISIS

APPLICATION

1. Can climate change be prevented?

It can't be fully prevented, but mitigated through global action.

2. As a student, what significant contribution can you make in response to climate change using the core values of USEP – Unity, Stewardship, Excellence and Professionalism?

The most significant contribution I can make is by practicing sustainability (reduce waste, advocate eco-policies) guided by USEP values.