Module 3 – Written interaction/Production samples
Advantages and Disadvantages of Modern Technology

Text 1 – Artificial Intelligence (AI)

Artificial Intelligence (AI) helps people in many areas. For example, AI can translate languages, help doctors find illnesses faster, and make customer service easier with chatbots. These are useful tools that save time and improve services.

However, AI also has some problems. One big issue is that it can take away jobs. For example, in factories or shops, machines can replace human workers. Also, AI sometimes makes mistakes, especially when it does not understand a situation well.

Another concern is that people do not always know how AI makes dec isions. This can be dangerous in areas like health or law. In my opinion, AI is a helpful tool, but we must use it carefully and with rules to protect people.

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Questions:

What are two examples of how AI helps people?
What is one problem AI can cause in workplaces?
Why can AI be dangerous in important areas like health?
What does the writer think about AI?
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Text 2 – Virtual and Augmented Reality

Virtual Reality (VR) and Augmented Reality (AR) are exciting new technologies. VR can help us play games, explore new places, or train for jobs like flying a plane. AR is also useful, especially in schools, where students can see 3D images to learn more easily.

These tools can make learning and entertainment more fun and interactive. For example, students can explore the human body in 3D or visit historical places virtually. It's a new way to study and enjoy.

However, VR and AR can be expensive. Not everyone can afford them. Also, using VR for too long can cause headaches or make people feel sick. I think VR and AR are very useful, but we should use them in a balanced way.

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Questions:

What is one way VR can help people learn?
Why are VR and AR sometimes difficult to use for everyone?
What health problem can happen with VR?
What is the writer's opinion?
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Text 3 – Smart Homes and Domotics

Smart homes use technology to make life easier. With a smartphone, you can control lights, heating, or even your door lock. For example, lights can turn off automatically when you leave a room, helping save energy and money.

Another advantage is comfort and safety. You can check your house cameras from anywhere, or turn on the heating before you arrive home. This makes daily life more relaxed and efficient.

However, smart homes depend on the internet. If the connection stops, the system may not work. Also, hackers can break into these systems and steal private information. In my opinion, smart homes are a good idea. But it is important to use secure systems and learn how to protect them from cyber risks.

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Name two things you can control in a smart home.

How do smart homes help save energy?

What is one risk of smart home systems?

What is the writer's advice?

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Text 4 – IoT and Smart Machines

The Internet of Things (IoT) connects everyday objects to the internet. For example, your fridge can tell you when food is low, or your watch can track your health. These smart machines save time and help people in their daily routines.

They can also make homes and cities smarter. For example, smart traffic lights help control traffic, and smart meters help reduce energy use. This can improve life for everyone.

However, smart machines collect a lot of personal data. If the data is not protected, it can be a danger to privacy. Also, if one device stops working, others may not work either. I think IoT is very helpful, but we must use it carefully and protect our information online.

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Questions:

Give two examples of smart machines.

How can IoT help in cities?

What is a danger of using smart machines?

What does the writer think about the IoT?

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Text 5 – Space Exploration

Space exploration helps scientists learn more about our universe. For example, we can study new planets, understand stars, and learn how Earth was formed. It also helps improve technology on Earth, like satellite communication and GPS.

Sending robots and astronauts to space is exciting and teaches us many things. For example, Mars missions help us know if life is possible there. Space exploration also helps us understand how to protect Earth from space dangers.

But space missions are very expensive. Many people think this money should be used for health, education, or the environment. I believe space exploration is important for the future of science, but we must also solve problems on Earth before spending too much on space travel.

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Questions:

Name one way space exploration helps Earth.

Why do some people not support space missions?

What are two things scientists can study in space?

What is the writer's opinion?

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Text 6 – The Future Workplace and Automation

Technology is changing how people work. Smart machines and robots can do many tasks, like cleaning, driving, or helping customers in shops. These machines work faster and don't get tired, which is good for businesses.

Automation can also reduce mistakes and save money. For example, robots in factories can do dangerous work safely. This can make jobs better and improve the quality of products.

But there are also problems. Many people lose jobs because machines replace them. In the future, workers will need to learn new skills to work with machines. I think automation is good for progress, but schools and governments should help people learn new jobs and support workers during the change.

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What are three jobs that robots can do?
How can automation improve jobs?
What is one negative effect of automation?
What does the writer think should be done to help workers?

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Text 7 - Advantages of biotechnology and nanotechnology

Modern technology helps people in many ways. For example, biotechnology allows doctors to create new medicines to fight diseases. This helps save many lives. Nanotechnology is also useful because it helps make smaller and better electronic devices. These devices are faster and use less energy. Technology makes communication easier with smartphones and the internet. People can talk to friends and family anywhere in the world. Technology also helps in farming by making plants stronger to grow in difficult places. This helps feed more people. Overall, modern technology improves health, communication, and food production, making life better for many people.
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Questions:

What does biotechnology help doctors do?
How does nanotechnology improve electronic devices?
What is one way technology helps communication?
How does technology help farmers?

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Text 8: Disadvantages of biotechnology and nanotechnology

Even though modern technology has many benefits, it also has some problems. Biotechnology can be dangerous if used without care, causing harm to people or the environment. Nanotechnology is very new, and scientists do not know all its risks yet. Technology can also make people spend too much time on phones or computers, which is bad for health. Some jobs are lost because machines and robots can do the work faster. People may feel lonely because they talk less face-to-face. Also, technology can be expensive and not everyone can afford it. So, technology has both good and bad effects on our lives.
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Questions:

What is one risk of biotechnology mentioned in the text?
Why is nanotechnology considered risky?
How can technology affect people's health?
What is one social problem caused by technology?

☑ **Answer Key**

Text 1 – Artificial Intelligence
AI can translate languages and help doctors find illnesses.
It can replace human jobs in places like factories or shops.
Because we don't always understand how AI makes decisions.
It is helpful but should be used carefully and with rules.

Text 2 – Virtual and Augmented Reality
VR can train people, like flying a plane or exploring places.
Because they are expensive and not everyone can buy them.
It can cause headaches or make people feel sick.
They are useful but should be used in a balanced way.

Text 3 – Smart Homes
Lights and heating.
Lights turn off when no one is in the room.
Hackers can steal personal data or the internet may stop working.
Use secure systems and protect them from cyber risks.

Text 4 – IoT and Smart Machines
A fridge and a smartwatch.
Smart traffic lights and meters make cities smarter.
Privacy problems if personal data is not protected.
IoT is helpful, but we must use it carefully and protect our data.

Text 5 – Space Exploration
It helps with technology like GPS or protecting Earth.
They think the money should help people and the environment.
New planets and stars.
It's important but we must solve Earth's problems too.

Text 6 – Automation
Cleaning, driving, and customer service.
It makes dangerous jobs safer and reduces mistakes.
People can lose their jobs.
Schools and governments should help workers learn new skills.

Text 7 - Advantages of biotechnology and nanotechnology

It helps create new medicines to fight diseases.
It makes devices smaller, faster, and use less energy.
It helps people talk to friends and family anywhere in the world.
It helps make plants stronger to grow in difficult places.

Text 8 - Disadvantages of biotechnology and nanotechnology
It can cause harm to people or the environment if used without care.
Scientists do not know all the risks because it is very new.
People can spend too much time on phones or computers, which is bad for health.
People may feel lonely because they talk less face-to-face.

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