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Activity Two – Reading Comprehension

Unit 4 – Reading

Computer Engineering: Shaping the Digital Future

Computer engineering is a rapidly growing branch of engineering that combines computer science with electrical engineering to develop innovative technologies. Computer engineers design, build, and improve computer systems, software, and digital devices that make modern life easier, safer, and more connected.

Today, computer engineers work in many different fields. Some specialise in artificial intelligence (AI), developing systems that can learn, recognise patterns, and make decisions. AI is used in voice assistants, online translation, medical diagnosis, and self-driving cars. Other engineers work in cybersecurity, protecting computer systems and personal information from hackers and cyberattacks. As more people use the Internet every day, keeping digital information secure has become increasingly important.

Another important area is computer networks. Networks allow computers and devices to communicate with each other and share information. Thanks to the Internet, people can work remotely, study online, send emails, and access information from almost anywhere in the world. Computer engineers constantly improve networks to make them faster, more reliable, and more secure.

Many engineers also develop embedded systems. These are small computers built into everyday devices such as washing machines, cars, medical equipment, smart televisions, and industrial robots. Embedded systems perform specific tasks automatically and help make devices more efficient and intelligent.

Cloud computing has also transformed the way people store and access information. Instead of saving files only on a personal computer, users can store data on remote servers and access it from different devices connected to the Internet. This technology allows companies and individuals to work more efficiently and collaborate from different locations.

Computer engineering continues to evolve with new technologies such as quantum computing, machine learning, and the Internet of Things (IoT). As technology becomes an essential part of daily life, computer engineers will continue to play a key role in solving complex problems and creating innovative solutions for the future.

Questions

1. What does computer engineering combine?

- A. Civil engineering and architecture.
- B. Computer science and electrical engineering.
- C. Biology and chemistry.
- D. Mathematics and history.

2. What is one application of artificial intelligence mentioned in the text?

- A. Building bridges.
- B. Voice assistants.
- C. Mining minerals.
- D. Designing roads.

3. What is the main purpose of cybersecurity?

- A. To create computer games.
- B. To increase Internet speed.
- C. To protect computer systems and information.
- D. To manufacture electronic devices.

4. Why are computer networks important?

- A. They produce electrical energy.
- B. They allow computers and devices to communicate and share information.
- C. They replace software applications.
- D. They manufacture computer components.

5. What is an embedded system?

- A. A large computer used only in universities.
- B. A small computer built into another device to perform specific tasks.
- C. A program used to design websites.
- D. A type of Internet connection.

6. According to the text, what is an advantage of cloud computing?

- A. It only works without an Internet connection.
- B. It allows users to access files from different devices.
- C. It replaces all computer networks.
- D. It stores information only on personal computers.

7. Which emerging technology is mentioned in the final paragraph?

- A. Steam engines.
- B. Quantum computing.
- C. Nuclear reactors.
- D. Mechanical manufacturing.

8. According to the text, why will computer engineers continue to be important?

- A. Because they only repair computers.
- B. Because technology is becoming increasingly important in everyday life.
- C. Because they only work in software companies.
- D. Because computers no longer need innovation.

Answer Key

1. B
2. B
3. C
4. B
5. B
6. B
7. B
8. B