

1. What is the Essence of Physical and environmental security on the IT world?

Physical and environmental security in the world of information technology is often overlooked, but it plays a key role in keeping systems safe and running smoothly. It is not just about guarding buildings or equipment. It is about protecting the real-world space where digital systems live. Think about what happens if there is a power outage, a fire, or someone walks into a server room and damages the machines. No matter how advanced a software system is, it cannot work without the physical tools that support it. Physical and environmental security ensures that computers, networks, and data centers are protected from both natural events and human actions. In simple terms, it helps technology stay alive and dependable in the real world.

2. Give at least two security measures either physical or technical and make a judgement what is the best security measures. Justify your answer?

One way to strengthen security is by using fingerprint or facial recognition to limit who can enter a sensitive area. This keeps strangers or unapproved people from touching important equipment. Another way is to encrypt the data, which means turning it into a secret code that only someone with the right key can read. Between the two, encryption is often the better choice. The reason is simple. If someone breaks into a room but the data is encrypted, they still cannot read or use it. Encryption protects the actual information, which is what most attackers really want. So, while it is important to protect the building and devices, protecting the data itself is even more powerful. In many cases, encryption adds a strong final layer of defense when everything else might fail.