DURATION – 30 minutes   **MARKS: 10**

Q.1   Fill in the blanks with correct option: (2 mks)

1. _____ is a type of passive attack that involves monitoring network traffic to gather information about users, systems, and activities.
2. _____ is a type of malware attack where malicious software self-replicates and spreads to other systems and devices.

Q.2   State whether the following statement is **True** or **False**. Justify your   (2 mks)
answer with appropriate explanation.

"Cryptography is solely concerned with securing the confidentiality of data, ensuring that only authorized individuals can read it."

Q.3   Answer the following question:
1. Mention any two features of an Antivirus.   (2 mks)
2. What is global surveillance with respect to IoT?   (1 mks)

Q.4   With the help of a diagram explain how Digital Signature works to   (3 mks)
ensure the integrity and authenticity of a digital message or document?

OR

With the help of diagrams illustrate the Encryption-Decryption   (3 mks)
process. List down any two social media apps/websites with their
Encryption-Decryption Algorithm.

**********ALL THE BEST**********