Name: Aswath S

College: Vellore Institute of Technology, Vellore

Reg.No: 21BEC2188

Wi-Fi Training Program 2025

Module 6

Question 2:

Explain the difference between authentication and encryption in WiFi security.

Solution:

Aspect	Authentication	Encryption
Purpose	To verify who is connecting.	To protect what is being sent.
Function	Confirms identity of users/devices.	Converts data into unreadable form for outsiders.
When it happens	Before a device can join the network.	After a device has joined, during data transfer.
Prevents	Unauthorized devices from connecting.	Eavesdropping on data.
Examples	WPA2-Enterprise (RADIUS server authentication), WPA3-SAE	WPA2 (AES encryption), WPA3 (GCMP-256 encryption)
Key Concept	Identity Verification	Data Privacy and Confidentiality