Module 11 CCNA – Chirag panchal

• Beginner Question

1. Explain How Automation Impacts Network Management

Ans-Automation streamlines network management tasks, enhancing efficiency and reducing human error through automated provisioning, monitoring, and troubleshooting processes

1. Compare Traditional network with Controller based networking

Ans-SD-Access centralizes network segmentation and policy management, while SD-WAN optimizes connectivity and performance across distributed locations, both utilizing software-defined networking principles for enhanced agility and SD-Access centralizes network segmentation and policy management, while SD-WAN optimizes connectivity and performance across distributed locations

1. Explain Virtualization

Ans-Virtualization is the process of creating a virtual (rather than actual) version of something, such as a server, storage device, network, or operating system

• Intermediate Question

1. Describe Characteristics of REST-based API

Ans-REST-based APIs are stateless, use standard HTTP methods, and employ a uniform interface for communication, emphasizing simplicity and scalability in web service interactions.

• Advance Question

1. Explain methods of Automation

Ans-Methods of automation include scripting, configuration management tools, and robotic process automation (RPA), enabling streamlined execution of tasks with minimal human intervention

1. Explain SDN

Ans-SDN (Software-Defined Networking) is an approach to network management that separates the control plane from the data plane, enabling centralized programmability and orchestration of network resources

1. Explain DNA Center

Ans-Cisco DNA Center is a network management and automation platform that leverages intent-based networking principles to streamline operations and enhance network visibility and control

1. Explain SD-Access and SD-WA

Ans-SD-Access centralizes network segmentation and policy management, while SD-WAN optimizes connectivity and performance across distributed locations, both utilizing software-defined networking principles for enhanced agility and efficiency