10%   6.0   Automation and Programmability

6.1   Explain how automation impacts network management

6.2   Compare traditional networks with controller-based networking

6.3   Describe controller-based, software defined architecture (overlay, underlay, and fabric)

    6.3.a   Separation of control plane and data plane

    6.3.b   Northbound and Southbound APIs

6.4   Explain AI (generative and predictive) and machine learning in network operations

6.5   Describe characteristics of REST-based APIs (authentication types, CRUD, HTTP verbs, and data encoding)

6.6   Recognize the capabilities of configuration management mechanisms such as Ansible and Terraform

6.7   Recognize components of JSON-encoded data