



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SCSA1502- COMPUTER NETWORKS AND DESIGN

ASSIGNMENT-II

Date: 06.09.2021

Fill in the blanks: (5 X 1=5)

1. _____ provides an isolated tunnel across a public network for sending and receiving data privately as if the computing devices were directly connected to the private network.
2. Site-to-site VPNs are also known as _____
3. _____ VPNs provides the same level of connectivity and reliability as a fully private network.
4. An _____ VPN links outside customers, suppliers, partners, or communities of interest to an enterprise customer's network over a shared infrastructure using dedicated connections
5. Normally, a _____ performs control and address translation for access from an intranet to the external Internet.

Short Questions: (5 x 1= 5)

6. VPN uses a public network to transmit private datagrams. Illustrate how Data Confidentiality is maintained in VPN .
7. Comment on the various characteristics of a Remote and Site-to-site Virtual Private Networks.
8. Illustrate the different requirements to install a perfect VPN network?
9. Interpret the need for Tunnelling in VPN's .
10. Categorize the different protocols involved in VPN.

Long Answer: (1 x 5 =5)

11. Data Integrity and User Authentication is a major bottle neck in Virtual Private networks (VPN). As a Network design expert suggests how the above said security issues are addressed in a VPN with necessary explanations and diagrams.