



Name:

Enrolment No:

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2023

Course: R&S Connecting Networks

Program: BCA (IOT/BFSI)

Course Code: CSBC3007P

Semester: VI

Time : 03 hrs.

Max. Marks: 100

Instructions:

**SECTION A
(5Qx4M=20Marks)**

S. No.		Marks	CO
Q 1	Explain role of Next-Generation Firewall (NGFW).	4	CO2
Q 2	Explain the purpose of VLANs in a switched network.	4	CO2
Q 3	How secure remote access can achieve through Telnet Operation	4	CO3
Q 4	Dual Stack Topology Layer 2 switches support LANs.	4	CO1
Q 5	Differentiate Native VLAN vs Data VLAN.	4	CO1

**SECTION B
(4Qx10M= 40 Marks)**

Q 6	List characteristics of Dynamic Trunking Protocol (DTP) .Explain few DTP commands.	10	CO1
Q 7	Explain the concept of Endpoint Security. List latest network attacks.	10	CO2
Q 8	Elaborate five-step boot sequence in router connect. Explain purpose of IOS commands.	10	CO1
Q 9	List benefits of wireless networks. Explain of different WLAN Components. OR Explain roles of different 802.11 Wireless Topology Modes.	10	CO2

**SECTION-C
(2Qx20M=40 Marks)**

Q 10	Design packet forwarding decision process for best case scenario. Draw proper diagram also. OR List and elaborate on routers support to different packet forwarding mechanisms. Design complete diagram also.	20	CO3
Q 11	Elaborate on purpose of STP Spanning Tree Protocol. Explain common problems in a redundant, L2 switched network.	20	CO2