


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2022			
Course: ROUTING AND SWITCHING ESSENTIALS Program: BCA spl IOT Course Code: CSBC 2008		Semester: IV Time : 03 hrs. Max. Marks: 100	
Instructions: Kindly stick to the question and support every answer with proper explanation.			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Distinguish between static and dynamic routing	4	CO2
Q 2	State the role of Trunk Line in VLAN	4	CO2
Q 3	List various types of routers	4	CO1
Q 4	Define LAN. Categories different types of LAN	4	CO1
Q 5	Recall different communication media in LAN	4	CO1
SECTION B (4Qx10M= 40 Marks)			
Q 6	Demonstrate OSPF protocol and it's working with LAN designed for 24 terminals	10	CO3
Q 7	"Packet communicate through various different node in a network and sometime get lost in transition". Elucidate different switching techniques used in LAN	10	CO1
Q 8	Illustrate the working of ACL. Identify various condition necessary for setup ACL	10	CO2
Q 9	"Protocols guide the flow of packet through any router". Interpret the working of MACA Protocol <p style="text-align: center;">OR</p> "Protocols guide the flow of packet through any router". Interpret the working of IGP	10	CO3
SECTION-C (2Qx20M=40 Marks)			
Q 10	"Router are the most important component of any network". Elucidate the various functionalities of Router	20	CO1
Q 11	Write detail note to appraise the role of the following: 1. RIP 2. VTP	10+10	CO3

OR

Write detail note to appraise the role of the following:

1. Link state Protocol
2. Modes of Operation in VTP