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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Electronics & Communication Engineering) (Sem.-5)

**ROUTING AND SWITCHING**

Subject Code : BTEC-905A-18

M.Code : 78707

Date of Examination : 30-11-2023

Max. Marks : 60

Time : 3 Hrs.

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A**

1. Write briefly :

- a) Define the term VRP operating platform.
- b) What do you mean by transport layer protocols?
- c) Define the term DHCP.
- d) What do you mean by IPv6 routing technologies?
- e) What is GVRP?
- f) How does ICMP work?
- g) Write the characteristics of FTP protocol.
- h) Write about type of connections in VLAN.
- i) Is NAT a security feature on router?
- j) Differentiate between Authentication and Authorization.



## SECTION-B

2. What do you mean by Generic Routing Encapsulation? Explain.
3. Explain the complete procedure to establish ADSL networks with PPPoE.
4. Discuss the complete working of Address Resolution Protocol.
5. How Simple Network Management Protocol works? Explain the different components SNMP managed network.
6. What is network segmentation? Discuss the different types of network segmentation.

## SECTION-C

7. Discuss the working of Link State Routing Protocol with OSPF.
8. Discuss about Authentication, Authorization and Accounting (AAA).
9. **Discuss the following :**
  - a) Securing data with IPsec
  - b) Internet Control Message Protocol.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**