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Total No. of Questions : 09

B.Tech. (CSE/IT) (Sem.-7)

ROUTING & SWITCHING

Subject Code : BTEC-905A-18

M.Code : 90691

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) What is meant by circuit switching?
- b) What is the need of ARP?
- c) Why Rapid Spanning Tree protocol is faster than Spanning Tree Protocol?
- d) Define dynamic IP and static IP addressing.
- e) What is OSPF?
- f) What are the different network security techniques?
- g) Describe Flow Control and Buffering in Transport Layer.
- h) What is ADSL Internet service?
- i) Difference between host name and IP address.
- j) Draw the Ethernet format.

SECTION-B

2. Explain VRP operating system image management.
3. Explain the principle of establishing DSL/ADSL networks with PPPoE.
4. What is the difference between switch and bridge?
5. What is network address translation? Explain translation method in brief.
6. Briefly explain the various fields of IPV6 address format.

SECTION-C

7. What is Generic Routing Encapsulation? How does it work?
8. What are the services provided by application layer? Explain FTP and SMTP application layer protocol in detail.
9. Explain any two :
 - a) WAN technology
 - b) IP address
 - c) Telnet 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.