

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Computer Science Engg./Information Technology) (Sem.-7)

ROUTING AND SWITCHING

Subject Code : BTEC-905A-18

M.Code : 90691

Date of Examination : 14-07-22

Time : 3 Hrs.

Max. Marks : 60

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) Difference between host name and IP address.
- (b) What is ICMP used for?
- (c) Why should you use CLI?
- (d) Why Rapid Spanning Tree protocol is faster than Spanning Tree Protocol?
- (e) What is DHCP?
- (f) How does Telnet work?
- (g) What are the types of Wireless LANs?
- (h) What is Access Control List?
- (i) How VPN helps in securing data?
- (j) What is VLAN routing?

SECTION-B

2. What are the services provided by application layer? Explain FTP and SMTP protocols.
3. What is the need of Network Address Translation? Explain its types.
4. What is CLI? What are the advantages and disadvantages of CLI?
5. Write a note on IPv6 routing technologies and application services.
6. What is Generic Routing Encapsulation? How does it work?

SECTION-C

7. Write a note on :
 - (a) VRRP Operating System Image Management.
 - (b) Establishing DSL/ADSL networks with PPPoE.
8. (a) How we can secure data with IPsec and VPN in networks?
 - (b) How enterprise network constructs?
9. Write a note on :
 - (a) File System Navigation and Management.
 - (b) Bridging Enterprise Networks with Serial WAN Technology.

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.