

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (ECE) (Sem.-5)
ROUTING AND SWITCHING
Subject Code : BTEC-905A-18
M.Code : 78707

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**Write briefly :**

- 1) Define autonomous systems.
- 2) What is the difference between router and switch?
- 3) What is Generic VLAN Registration Protocol?
- 4) What is ADSL Internet service?
- 5) Define DHCP.
- 6) What are the services offered by network layer?
- 7) What is distance vector Routing?
- 8) What is the difference between dynamic IP and static IP addressing?
- 9) Explain the addressing used in data link layer.
- 10) What is OSPF?

SECTION-B

- 11) Briefly explain the various fields of IPV6 address format.
- 12) Explain the term Authentication, Authorization and Accounting (AAA) used in network security.
- 13) What is DSL and ADSL? Explain the principle of establishing DSL/ADSL networks with PPPoE.
- 14) What is network address translation? Explain translation method in brief.
- 15) What is Generic Routing Encapsulation? How does it work?

SECTION-C

- 16) What is the difference between link state and distance vector routing protocol? Explain the steps involved in both types of routing protocol.
- 17) What are the services provided by application layer? Explain FTP and SMTP application layer protocol in detail.
- 18) Write a short notes on the following :
 - a) VRP operating system image 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.