

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE) (Sem.-5)

COMPUTER NETWORKS

Subject Code : BTCS 504-18

M.Code : 78323

Date of Examination : 28-11-2023

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. **Answer briefly :**

- a) What is WWW?
- b) What is BOOTP protocol?
- c) What do you mean by Quality of Service at transport layer?
- d) What is IPv6?
- e) Define URL.
- f) List the key properties of Bluetooth protocol.
- g) What is time division multiplexing?
- h) What is wired LAN and wireless LAN?
- i) List the important features of CSMA protocol.
- j) What do you mean by spread spectrum?

SECTION-B

2. List properties and uses of various transmission media used in computer networks.
3. Discuss the role of DHCP protocol at network layer.
4. How UDP differs from TCP protocol?
5. Compute the value of the checksum if a message 1001 1100 1010 0011 is transmitted using Internet Checksum (4-bit word)?
6. How client establish remote connection to server using TELNET protocol?

SECTION-C

7. Explain various types of sliding-window protocols at data link layer and illustrate the working of each with suitable example.
8. What is network topology? Explain the different network topologies with suitable examples.
9. **Write short notes on :**
 - a) HTTP
 - b) Piggybacking

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.