

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE) (AI & ML) (Sem-6)

COMPUTER NETWORKS

Subject Code : BTCS-504-18

M.Code : 93394

Date of Examination : 19-05-2023

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

I. Answer briefly :

- a) What do you mean by Computer Networks?
- b) Explain the Digital Data Transmission concept.
- c) Explain different types of Handoff strategies.
- d) What is the difference between circuit switching and packet switching?
- e) Why CSMA/CA cannot be used in wireless networks?
- f) Explain different types of errors.
- g) Define IEEE in the Networking World.
- h) What is Symmetric and Asymmetric Encryption?
- i) What is meant by 127.0.0.1 and Localhost?
- j) What is DNS?

SECTION-B

2. What do you mean by Network Topology? Explain all and also comment which one is the best and Why.
3. Difference between IPv4 and IPv6. Also explain the concept of Cryptography.
4. What is the difference between Hub, Switch, and Router?
5. Differentiate between TCP and SCTP.
6. Describe the purpose of HTTP and different web applications based on it.

SECTION-C

7.
 - a) How is TDMA based network different from CDMA based networks?
 - b) What are the different ways to establish WLAN? Explain in detail.
8.
 - a) What is Piggybacking. What are advantages and disadvantages of Piggybacking?
 - b) Difference between a TCP/IP and OSI Model.
9. What are the essentials of a Wireless System Design? Why is frequency reuse important and how can it be attained in a cellular network?

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.