Roll No. ☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(CE/EE/ECE) (Sem–6)
# COMPUTER NETWORKS
Subject Code : BTCS-504-18
M.Code : 79264
Date of Examination : 10-06-2023

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. Write briefly :

   a) Write the advantage of network topology.

   b) What is OSI model?

   c) Define Wireless LAN?

   d) What is ARQ used for?

   e) What is meant by piggybacking.

   f) Write advantage of IPv6 in networking.

   g) What are virtual circuit networks?

   h) Differentiate between UDP and TCP Protocol.

   i) What is use of DDNS?

   j) Write about QoS.

SECTION-B

2. How CSMA/CA protocol is used to avoid the collision in networks?

3. What do you mean by error detection and correction? Discuss cyclic redundancy check.

4. What is routing protocol? Write about any one algorithm used in it.

5. What is multiplexing? Compare TDM, FDM and WDM.

6. How does congestion control work in computer networks.

SECTION-C

7. Discuss in detail, the transmission media used in computer networks for transmission of signals?

8. What is the use of firewalls in networking? Discuss open source available software and tools in networking.

9. Explain, how Cryptography is used to provide security in computer networks?

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.