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

Total No. of Questions : 09

B.Tech.(CSE/IT) (Sem–5)
# COMPUTER NETWORKS-II
Subject Code : BTCS-501
M.Code : 70534
Date of Examination : 22-06-2023

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 has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

1. Write briefly :

   a) Discuss internet key exchange.

   b) Explain IKE header format.

   c) What is 2.5G TDMA?

   d) Discuss the class field in IP address.

   e) What are the metrics used by routing protocols?

   f) What are the functions of MAC?

   g) What is a Bluetooth?

   h) What is Zig Bee?

   i) Discuss the importance of IPSec in network security.

   j) Explain the importance of IEEE 802.11 standard.

SECTION-B

2. Describe in brief about IPv6.

3. Discuss about transition from IPv4 to IPv6.

4. Discuss briefly about Wireless LAN Technologies.

5. What are 'the Cellular Networks? Explain in detail.

6. What is the access method used by wireless LANs?

SECTION-C

7. Explain the frame format, operation and ring maintenance feature of IEEE 802.5 MAC protocol.

8. How is network security achieved at various layers? What is the fundamental difference in key exchange for digital signatures and achieving confidentiality?

9. State the criteria for distinguishing LANs, MANs and WANs. Also discuss the evolution of MAC protocols based on carrier sensing.

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.

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