Paper code 2011000105030001
BCA (Sem –V)
Examination June-2023
Network Technologies (503)

Seat No:

Student's Signature

[**Time: Three hours**]   [**Max. marks: 70**]

Instructions: 1. Write to the point.
                             2. Provide examples and diagrams wherever appropriate / necessary.
                             3. Figures to the right indicate full marks to the question.

Q.1   Answer the following questions.   **10**

1)   ....topology is a variation of star topology.
              A) Ring   B) Bus   C) Mesh   D) Tree

2)   In a peer-to-peer network, each computer in a network is referred as
              A) Server   B) Client   C) Peer   D) Sender

3)   In the sending computer, UDP sends a data unit to the_____ layer.
              A) Application   B) Transport   C) Network   D) Datalink

4)   What is Full form of VANET?
              A) Vehicular AdHoc Network
              B) Vehicular Address Network
              C) Vehicular Adhoc Neural Network
              D) Wireless Sensor Networks

5)   OSI stands for
              A) open system interconnection
              B) operating system interface
              C) optical service implementation
              D) open service Internet

6)   The number of layers in ISO OSI reference model is
              A) 4   B) 5   C) 6   D) 7

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7)   Which layer is used to link the network support layers and user support layers?
    A) Session Layer
    B) Data Link Layer
    C) Transport Layer
    D) Network Layer

8)   Which of the following network device works on network, data-link and physical layer?
    A) Bridges   B) Routers   C) Repeaters   D) Hub

9)   FTP is built on_____ architecture.
    A) Client-Server   B) P2P   C) Data Centric   D) Service Oriented

10) Expansion of SMTP is
    A) Simple Mail Transfer Protocol
    B) Simple Message Transfer Protocol
    C) Simple Mail Transmission Protocol Protocol
    D) Simple Message Transmission

Q.2   Answer the following (Any Three).   **21**
1)   Discuss Bounded Transmission Media
2)   Explain any three Network devices in details.
3)   What is Internet and explain architecture of it.
4)   Explain Fiber Optic Cable in detail

Q.3   Answer the following (Any Three).   **21**
1)   What is Protocol? Discuss any three software Protocols
2)   Explain Physical and Presentation Layers of OSI model in detail
3)   Write note on TCP and UDP.
4)   Explain MANET and VANET.

Q.4   Answer the following (Any Three).   **18**
1)   Explain Concept of email and also explain working and services of email.
2)   Explain Firewall.
3)   Explain Digital Certificate
4)   Explain Term: SMPT, DNS and POP.

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