2011000105030001
T.Y.B.C.A. Semester -V
Examination March-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   Choose the correct answer.   **10**

1.   What is the number of layers in the OSI model?
(a) 2 layers   (b) 4 layers   (c) 7 layers   (d) 9 layers

2.   What does PoP stand for?
(a) Pre Office Protocol   (b) Post Office Protocol   (c) Protocol of Post   (d) None

3.   What is a HUB?
(a) Software   (b) Computing device   (c) Network device   (d) Calculating device

4.   What does a set of rules define?
(a) SMTP   (b) FTP   (c) IMAP   (d) Protocol

5.   Choose among the following, which is the most common internet protocol.
(a) PPP   (b) FTP   (c) TCP/IP   (d) SMTP

6.   Identify among the following the network device used to connect two dis-similar types of networks.
(a) Switch   (b) Hub   (c) Bridge   (d) Gateway

7.   The arrangement where all data pass through a central computer is known as
(a) Ring topology   (b) Mesh topology   (c) Star topology   (d) Bus topology

8.   Identify the layer, which determines the interface of the system with the user.
(a) Network   (b) Datalink   (c) Presentation   (d) Application

9.   Identify among the following which belongs to class A.
(a) 121.12.12.248   (b) 128.12.12.248   (c) 129.12.12.248   (d) 130.12.12.248

10. What does LAN stand for?
(a) Local Array Network   (b) Local Area Network   (c) Local Area Net   (d) None

Q.2   Answer the following: (Any Four)   **24**

1. What is Network? Explain advantages and disadvantages of Networks.
2. Explain working of Intranet.
3. Define Topology. Explain Bus Topologies and Mesh Topologies.
4. Discuss responsibilities of Network and Session layer Link Layer.
5. What is MANET? Explain types of MANET and discuss VANET in detail.
6. Explain UTP.

Q.3   Do as directed: (Any Four)   **24**

1. Explain IP address with its class.
2. Define URL. Explain types of URL.
3. Write difference between HTTP and HTTPS.
4. Explain SSL and FTP in detail.
5. Explain working of email.
6. What is Email? Explain SMTP protocol in detail.

Q.4   Write a short note on the following: (Any Two)   **12**

1. Architecture of Internet
2. Types of Networks
3. FANET

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