

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION MAY 2023
(Second Semester)

Branch – COMPUTER SCIENCE

TCP/IP PROTOCOL SUITE

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

- 1 An internetworking device operating at the transport layer is called a
(i) Bridge (ii) Router (iii) Repeater (iv) Gateway
- 2 In a periodic update, a node sends its routing table normally after every
(i) 10s (ii) 20s (iii) 30s (iv) 40s
- 3 To prevent unnecessary traffic, Internet Group Management Protocol (IGMP) uses a
(i) delayed response strategy (ii) delayed response stations
(iii) delayed response solutions (iv) delayed response signals
- 4 What is the basic purpose of the Address Resolution Protocol (ARP)?
(i) To convert Ethernet addresses to IP addresses
(ii) To list all configured interfaces on a system
(iii) To list the Ethernet name of a host machine
(iv) To resolve IP addresses to Ethernet addresses
- 5 In User Datagram Protocol (UDP), the checksum calculation is different from the one for IP and
(i) TCP (ii) TCP/IP (iii) FSP (iv) ICMP

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a. Explain TCP/IP protocol Suite.
OR
b. Describe Ethernet Switch.
- 7 a. Explain Forwarding Techniques.
OR
b. Sketch out the Structure of a Router.
- 8 a. Describe the different types of messages.
OR
b. Outline Debugging tools.
- 9 a. Explain Cache Table in short.
OR
b. Describe RARP Server.
- 10 a. How to you apply Checksum? Explain.
OR
b. List out the features of Stream Control Transmission Protocol.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

11. a. Describe Transport Layer in detail.
OR
b. Elucidate ARCNET.
12. a. Explain Routing Protocols.
OR
b. Discuss on Teleconferencing.
13. a. Explain Internet Group Management Protocol.
OR
b. Describe error reporting in Internet Control Message Protocol.
14. a. Explain Proxy ARP in detail.
OR
b. Describe RARP Packet formation.
15. a. Explain TCP Services in detail.
OR
b. Elucidate TCP Connection.

Z-Z-Z

END