

Roll No.....

MCIT-102

M.E./M.Tech., I Semester Examination, June 2020

Internet Technology

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) How does the IPv4 protocol work over ATM networks?
b) Compare an IPv4 header with an IPv6 header.
2. a) Explain the cache control module and the cache table in the ARP package.
b) Explain the source quench message and the time exceeded message in ICMP.
3. a) State and explain the solutions to the two node instability in RIP.
b) What are the most recent advances and performance metrics in assessing SDN and WSN networks management and monitoring with Mathematical modeling tools?
4. a) What are the goals of network monitoring?
b) What are the two kinds of resolution used by DNS for name address resolution?
5. a) Explain the four control characters used in TELNET for option negotiation.
b) Explain different type of fault management functions with suitable example.
6. a) Explain the control flags, window size and urgent pointer fields in the TCP header; also explain the services provided by UDP.
b) Explain the commands and responses used in SMTP to transfer messages from the client to server.
7. a) What are the four levels of addresses used in the internet having TCP/IP protocols?
b) Explain the control flags, window size and urgent pointer fields in the TCP header, also explain the services provided by UDP.
8. a) Explain the three attributes of communication over data connection in FTP.
b) State and explain the four types of links in OSPF.
