

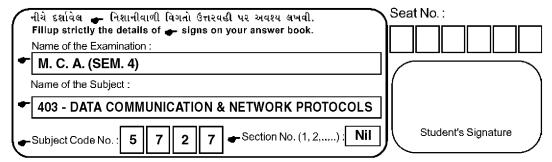
DMM-5727

M. C. A. (Sem. IV) Examination March / April - 2016

403 - Data Communication & Network Protocols

Time: 3 Hours [Total Marks: 70

Instruction:



1 Answer the following in brief: (any seven)

- 14
- (1) What do you mean by address space? Only give example of binary and dotted-decimal notation?
- (2) Only draw general format of ICMP message.
- (3) What is Silly window Syndrom?
- (4) In reference to DNS what is work of resolver?
- (5) What is the use of TFTP and POP?
- (6) What do you mean by hop-to-hop delivery?
- (7) What is protocol? What is port number?
- (8) What do you mean by fragmentation and MTU?

2 Answer any two:

14

- (1) What is routing? Discuss in brief static and dynamic routing tables? Also duscuss common fields in routing table?
- (2) Explain in brief RARP Packet Format? What is use of ARP and RARP?
- (3) Explain giving example classless addressing.

3 Answer any two:

- 14
- (1) "ICMP has been designed to remove deficiencies of IP." Is the statement correct? Justify your answer.
- (2) Explain in brief: netstat, ping, telnet, traceroute
- (3) In reference to IP datagram options, list different categories of option? Explain in detail one from each categories?

4 Answer any two:

14

- (1) Give the format of TCP segment and describe its fields.
- (2) What are the similarities and differences between TCP and UDP? List uses of UDP. What are advantages and disadvantages of UDP over TCP? Why pseudo header is used in UDP? Which feature of UDP is not supported in TCP? Give three examples of protocols that user UDP.
- (3) Explain in brief TCP timers?

5 Answer any two:

14

- (1) Discuss in brief unicast routing protocols.
- (2) What is resolver? Explain in brief different resolution method used in DNS?
- (3) Explain in brief BOOTP?