

Important Question's

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BLOCK 1

**Ques. 1** How do the layers of the TCP/IP model correlate with the layers of the OSI model? Also, draw the layer diagram of each, showing the mapping of OSI and TCP/IP layers ?

**Ques. 2** Explain the working of ARP and RARP using a suitable example ?

**Ques. 3** What is the importance of ICMP at the Network layer?  
Explain the reports generated by ICMP ?

**Ques. 4** Explain TCP connection-establishment and connection-termination using 3-way handshaking along with different segments used in the processes. Make a suitable diagram ?

**Ques. 5** Explain any four methods used by HTTP for data transfer ?

**Ques. 6** What are subnetting and supernetting?  
Explain each with the help of an example ?

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**BLOCK 1**

**Ques. 7** Explain the significance of the following header fields of the IP diagram ?

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**Ques. 8** Differentiate between IPv4 and IPv6? Find the error, if any, in each of the following IPv4 addresses ?

111.56..036.89

226.14.8.5.3

75.14.14.14

**Ques. 9** Differentiate between TCP and UDP and Draw the header of each ?

**Ques. 10** Explain the sliding window protocol using an example ?

**Ques. 11** How does TCP manage the "out-of-order" segment problem? Explain the procedure with a suitable diagram ?

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BLOCK 1

**Ques. 12** What is SNMP? Explain the different security levels implemented in SNMP ?

**Ques. 13** Explain the IMAP protocols and POP server ?

BLOCK 2

**Ques. 1** Define a socket. Write its structure. List and explain five different types of socket options available ?

**Ques. 2** Explain the purpose of read() and write() system calls of data transfer ?

**Ques. 3** Write an algorithm each for the UDP client and UDP server ?

**Ques. 4** Write an algorithm (using Socket Programming System Calls) for TCP client and TCP server each ?

**Ques. 5** Define Unicasting, Broadcasting, and Multicasting ?

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**BLOCK 3**

**Ques. 1** Explain the Cloud Computing ?

**Ques. 2** Why are the different remote administrations needed?  
Explain two features of each ?

**Ques. 3** What is Virtual Private Network(VPN) What are its advantages and disadvantages? Also, write the differences between VPN and Free NX ?

**Ques. 4** Explain the term FAT16 and FAT32 ?

**Ques. 5** How is the "Disc User" checked in Linux? Explain with the help of an example ?

**Ques. 6** Discuss the activities between DHCP (Dynamic Host Configuration Protocol) server and the DHCP client ?

**Ques. 7** What are Primary and Secondary DNS servers? How does the DNS server work? Explain with help of diagram(s) ?

**Ques. 8** Explain the Network File System (NFS) briefly ?

**Ques. 9** Explain any five disk management functions used by the network administrator ?



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