FULL MARKS: 70

TIME-3 HRS

Answer any six questions including Question I which is compulsory

Give a detailed description of token ring inefficient if a LAN had a huge perimeter? Discuss the Internet addressing mechanism. H Explain how reliable delivery of entire messa Give a detailed description of public key cryp Why there is an upper limit on modem speed modem. Explain the working procedure of frame relay Write short notes on a) Repeater b) Hub c) Bridge d) Network throughput	, ,	wer all the following questions low can you verify a digital signature? What is multicast socket? Nhat is the meaning of "in" in the URL 'low FTP is different from HTTP? What is the utility of datagram? Aplain each term in the phrase 10 Base: he address 11011101 11011111 1111111 Differentiate between socket and port? ain the TCP/IP protocol suite and how it ain datagrams and virtual circuits with reference logging works in terminal network in RSA algorithm. Find the ciphertext or in about three way handshaking proced
Explain the TCP/IP protocol suite and how it Explain datagrams and virtual circuits with re How remote logging works in terminal network Explain RSA algorithm. Find the ciphertext of Describe the important functions of network Explain about three way handshaking proced Give a detailed description of token ring inefficient if a LAN had a huge perimeter? Discuss the Internet addressing mechanism. H Explain how reliable delivery of entire messa Give a detailed description of public key cryp. Why there is an upper limit on modern speed modern. Explain the working procedure of frame relay Write short notes on a) Repeater b) Hub o) Bridge d) Network throughput	K	
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Explain RSA algorithm. Find the ciphertext of Describe the important functions of network Explain about three way handshaking proced Give a detailed description of token ring inefficient if a LAN had a huge perimeter? Discuss the Internet addressing mechanism. H Explain how reliable delivery of entire messa Give a detailed description of public key cryp Why there is an upper limit on modern speed modern. Explain the working procedure of frame relay Write short notes on a) Repeater b) Hub c) Bridge d) Network throughput	3.(a)	How remote logging works in terminal networking?
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Explain about three way handshaking proced Give a detailed description of token ring inefficient if a LAN had a huge perimeter? Discuss the Internet addressing mechanism. H Explain how reliable delivery of entire messa Give a detailed description of public key cryp Why there is an upper limit on modem speed modem. Explain the working procedure of frame relay Write short notes on a) Repeater b) Hub c) Bridge d) Network throughput	1	Describe the important functions of network layer. What do you mean by
Give a detailed description of token ring inefficient if a LAN had a huge perimeter? Discuss the Internet addressing mechanism. H Explain how reliable delivery of entire messa Give a detailed description of public key cryp Why there is an upper limit on modem speed modem. Explain the working procedure of frame relay Write short notes on a) Repeater b) Hub c) Bridge d) Network throughput		Explain about three way handshaking procedure for establishing TCP co
	THE REAL PROPERTY.	
		Discuss the Internet addressing mechanism. How DNS is useful?
	6.(a)	Explain how reliable delivery of entire message is done in transport layer
		Give a detailed description of public key cryptosystems.
3	7.(a)	Why there is an upper limit on modem speed? Explain voice grade mod nodem.
Write short notes a) Repeater c) Bridge	1	Explain the working procedure of frame relay.
	8	notes

Full Mark:- 70

Sub:- Internet & Web Technology

Time: 3 hours

Answer any Six questions, including Q. No. 1 which is compulsory The figures in the right hand margin indicate marks

(a) Discuss the concept of subnet addressing. Why is it used? Answer all the Questions (2×10)

- (c) Define Root Server.
- (d) Differentiate between connection oriented and connectionless delivery systems?

(b) What is limited broadcast? How does it differ from directed broadcast?

- (e) What is bit implementation of SSL?
- (f) What is "routing with partial information"?
- (g) What is Domain Name System?
- (h) Explain what you mean by anonymous FTP?
- "TCP/IP provides a connectionless and reliable transport service" Explain.
- (j) Give the format of an Internet datagram
- 2 (a) Why is IP called 'Best effort delivery' protocol? Draw IP datagram and explain the fragmentation offset field. 3
- (b) What is Multicast Addressing? Describe the working principle of transport gateway?
- (a) Explain how IP and mask are encoded in BGP message format
- (b) Explain how Gateway to Gateway Protocol (GGP) truly follow Bellman-Ford routing protocol. (5)

(5)

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- (a) A host with IP address 137.23.56.23/16 sends a packet to a host with IP address 137.23.67.9/16. Is the delivery direct or indirect? Assume no subnetting
- (b) When does the DHCP server need to check the static database for address mapping? What are the types of information can a client receive from a DHCP server when it is booted for the first time in network? 9
- (a) The ATM standard defines how many layers? Briefly explain each of them
- (b) What is firewall? Discuss each types of firewall briefly.
- (0) (a) In class B subnet, the IP address of one of the hosts and the mask are given below: IP Address: 125.134.112.66

(5)

(5)

(5)

What is the first address (network address) and the last address (broadcast address) in this subnet?

- (b) What is multicast addressing? Describe the working principle of transport gateway?
- What is DHCP? How many different types of messages are there? Explain DHCP message format Explain the least renewal process. What are interior routing and exterior routing? (1+1+3+3+2)
- &/What is Broadband Communication? How is it different from Dial up Connections? Differentiate between High speed dedicated WAN services and switched WAN services (3+3+4)