(vii) Connection establishment in TCP is done by which mechanism?

Turn over

(b) 127.0.0.1

(c) 255.255.255.255

(d) 0.255.255.25

(a) Flow control

(c) Forwarding

(d) Synchronization

(b) Three-Way Handshaking

(VII	(router or switch is ready to process them.
	(a) FIFO
	(b) Priority
	(c) Weighted fair
	(d) None of these
(ix)	The packet of information at the application layer is called
	(a) Packet
	(b) Message
	(c) Segment
	(d) Frame
(x)	In an asymmetric-key cipher, the receiver uses the key.
	(a) Private
	(b) Public SINA CHOWDHURY CENTRAL LIBRARY
	(c) Either (a) or (b)
	(d) Neither (a) or (b)
(a)	Explain your understanding about OSI and TCP/IP model. Out of these which reference model is being frequently used?
(b)	A bit stream 110101010 is transmitted using the standard CRC method. The generator polynomial is $x^2 + x + 1$. Show the actual bit string transmitted. Suppose the third bit from the left is inverted during transmission. Show that this error is detected. (5)
(c)	What is guided Transmission Media and Unguided Transmission Media (4)
(a)	State whether true or false- "Stop and wait ARQ is a type of Go-Back-N ARQ protocol". Justify your answer with the help of a diagram. (5)
(b)	An ISP is granted a block of addresses starting with 195, 200, 0.0/16 (65536 addresses) ISP needs to distribute these addresses to three groups of customers as follows:
	(i) The first group has 64 customers. Each need 128 addresses. (4)
	(ii) The second group has 128 customers. Each needs 64 addresses. (3)
	(iii) The third group has 128 customers, each needs 32 addresses. (3)

Explain how routing is performed using link state algorithm? Illustrate with 4. an example. (7) How performance is improved in CSMA/CD protocol compared to CSMA protocol? Explain. Explain how a connection is established and terminated in TCP. Explain (a) Ď, the header of the UDP in detail. What is QoS? Explain any two methods to ensure QoS. (5) (b) With the help of block diagram, explain the asymmetric key cryptography. 6. (a) (5)How FTP handles file transfer? (5) (b) Explain the name resolution process in DNS. (5) (c) BINA CHOWDHURY CENTRAL LIBRARY Write short notes on (any three): (15)7. (a). Token Bucket Algorithm (b) Email PGP (c) LAN vs WAN (d) Hub and Switch. (e)