Question List - CN

Lecture-1

1) No Question.

lecture-2 (Dota Link layer)

- 1) What is the draw back of byte count method?
- 2) Give the Principle of flag byte with bythe byte stuffing with appropriate diagram, what is its drawbacks and how can it be can be overcomed?
- 3) How ambiguity of consecutive 5 is avoided in flag bit stuffing method.
- 4) Grive the worst case of byte stuffing and bit stuffing.
- 5) Give the steps of determining transmission polynomial.
- 6) Example on CRC.
- 7) Determination of entrote polynomial of single bit entrote and multiple bit entrote.

- 8) How to avoid ambiguity of single bit, 2 bit, and burest errore in ere?
- 9) What will happen when E(x) = GI(x)
- 10) Design of dividing circuit design. (no table)
- 11) Why flow control is necessary?
- 12) Give the basic principle of stop and wait
 flow control.
- 13) Show the timing diagram of Stop and wait flow control.
- 14) Why transmission time is larger than propagation delay and the other one, t2>t1
- 15) Show the cocept of sliding window protocol with few steps.
- 16) Reprusent sliding window protocol against window size and its acknowledgement.

- 17) Derive maximum throughut of pure ALOHA and slotted ALOHA.
- 18) Example on pute and slotted ALOHA.
- 19) Exploin CSMA/CD With appropriate diagram.
- 20) Comporte 1, min, p persistent CSMA.
- 21) Give bonie principle of Token Tring? access system.
- 22) Compare exhaustive service, gated service and limited service.
- 23) Steps of binary exponential backoff algo.

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Lecture - 3 (Network Layor)

- 1) Show the How control of IP packet through heterogenous LAN.
- 2) Dream the complete version IPV4 packet.
- 3) Mention the function of differentiated service
- 4) Identification of function!
- 5) Fragment offset. Describe briefly

- 6) Time =to live
- 7) Give an example of calculative headers checksum.
- (8) Describe flow label of IPV6 headers.

Lecture -4 (IP Address)

No question.

- The Network Layen lee 3.

 1) Problem on routing table of connectionless service
- 2) Problem on mouting table of connection oriented service.
- 3) Compare connectionless and connection oriented/
 datagream and virtual circuit.

- 4) Problem on sink thee under optimality principle (Slide-16
- n shortest path ALGO (Slide-22)

- 1) What's the nemedial measures against huge duplicance of packets. (Slide-23)
- 2) Gire 2 real life example of flooding (slide-25)
- 3) Problem on distance routing (29)
- 4) Explain count to infinity problem
- 5) How good news propagates under distance vectors algo

Transport Layer

- 1) Give the basic principle of 3 way handshake in connection establishment under trasport layer (slide 10)
- 2) How to resolve old duplicate packet under this protocol (slide)
- 3) How both CR and data duplication both arre protected under this protocol (12)
 - 4) Compane asymmetric and symmetric release of connection
 - 5) What is the problem of ass asymmetric roelease of computers communication (14)
 - 6) Gire basic principle of 3 way handshake in connection Release (Slide 17)
 - 7) Give 3 (scenemio) adverse situation to tackle by this protocol (18,19,20-just diagram)

- 1) Define Plain text and eighers text (4)
- 2) emptography, emptanalysis, emptology (5)
- 3) Give the idea of active and passive introden (6)
- 4) r n concept of substitution cipher with example (11,12)
- 5) n n idea n transposition eighen n n (15,16)
- 6) " concept asymmetric key cryptography (18,20)
- 7) Give the sets steps of RSA Alogo with example (23).

22/06/22

- 1) Compane Conventional and Digital signature in concept of inclusion, remification, nelationship and Duplicity (27,28)
- 2) How to implement Non-nepudiation on digital signature (30-32)
- 3) What is the problem of trusted authority? How it can be overcomed? (33,34)
- 1) What are the properties of Message Digests? Why it is proefenable in digital signature (slide 36)
 - 5) Show the complete armangement of SHA-1 in digital signature (37,39).

- i) Why DNS is essential in intermet? (A SHE 27 istpa 2 pan
- 2) Example 2 study (11-13)
- 3) Gire the steps of DNS Name Resolution (19,15).

04/07/22

- i) Gire the steph of simple Mail Toxansfer Protocol (SMTP) for sending and neceiving email with appropriate diagram (28,29)
- 2) Gire the basic concept of POP (30)
- 3) n n steps of reb browsing from client side (38,39)
- 4) What are the benefits of web caching. Give the process
- of web eaching. (49)
- 5) Compane Telnet and Secure shell (57)