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- \mathfrak{S} **e** Give the frame format of IEEE standards 802 for What are the responsibilities of physical layer data link layer?
- Ξ (g) What is the purpose of the timer at the sender site For n devices in a network, what is the number of star networks? cable links necessary for mesh, ring, and bus and
- in systems using ARQ?
- (i) Give data transfer modes of HDLC?
- \subseteq How TCP diffwer from the sliding window protocols

Section-B

Attempt any five questions from this sections

$$(5 \times 10 = 50)$$

Explain and compare the performance of different line coding scheme

Explain IPv4 and IPv6 Internet protocol

Explain in short IEEE standards 802 for LAN.

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Q6. Q5. Define and explain the various frame type in HDLC. Design a three stage 200 X 200 switch with K=4 and

- How do we say collision detection is analog process? maximum efficiency of ALOHA is 1/e Why do we prefer CSMA over ALOHA? Prove that
- Q7. Discuss the various design issue involved in ATM Technology and also explain the different layers of ATM.
- Q8. Write a short note on:
- (i) Message Integrity
- (ii) Digital Signature
- (iii) Cryptography
- Q9. Explain the CRC error detection technique generator polynomial X^4+X^3+1 and data is 11100011.

Section-C

Attempt any two questions.

 $(2 \times 15 = 30)$

Q10. What is the various design issues involved in the network suitable example. routing techniques? Explain link state routing with layer? What do you mean by intradomain and interdomain

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