

SECTION-B

2. What are the goals of computer networks? Explain in brief.
3. Differentiate between asynchronous and synchronous TDM.
4. Explain the stop and wait ARQ mechanism.
5. A company is granted the site address 201.70.64.0. The company needs six subnets. Design the subnets.
6. What is multiplexing and de-multiplexing at transport layer? Explain in brief with example.

SECTION-C

7. What is link state routing? Explain the steps involved with an example.
8. Given the data word 1010011010 and the divisor 10111 :
 - a. Show the generation of the codeword at the sender site (*using binary division*)
 - b. Show the checking of the codeword at the receiver site (*assume no error*).
9. What is DNS? Differentiate between recursive and iterative queries. Explain the formats of the query and response messages used in DNS.