Quadrant IV– Assessment (Module – wise)

Programme: B.Sc.
Subject: Computer Science
Paper Code: CSC 105
Paper Title: Computer Networks
Unit: 3
Module Name: Noisy Channels: Sliding window protocols – Selective Repeat ARQ
Module No: 19
Name of the Presenter: Mr. Kumaresh V. C.

Short Answer – I (short notes - say 20 to 50 words)

1. Compare and contrast the Go-Back-N-ARQ Protocol with Selective-Repeat ARQ Protocol.
2. What is the window size for sender and receiver site in Selective-Repeat ARQ Protocol?
3. Using 5-bit sequence numbers, what is the maximum size of the send and receive windows for each of the following protocols?
    a. Stop-and-Wait ARQ
    b. Go-Back-NARQ
    c. Selective-Repeat ARQ
4. With reference to the timer what is the difference between Go-Back-N-ARQ Protocol with Selective-Repeat ARQ.
5. What is the use of NAK frame?
6. Explain the advantages of Piggybacking technique.

Short Answer – II (extended - say 50 to 100 words)

1. Illustrate with example the sliding window operation of Selective Repeat ARQ Protocol.
2. Draw the flow diagram of Selective-Repeat ARQ Protocol with out-of-order arrival frames and explain.

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