

**Quiz#2 Model 2      Computer Networks-1      Duration: 20 min**

**Question 1: choose the correct answer. (5 marks)**

1. which one of the following tasks is not done by data link layer?

- a. Framing      b. error control      c. flow control      **d. channel coding**

2. Multiplexing Technique that shifts each signal to different carrier frequency.....

- a. FDM**      b. TDM      c. either a or b      d. both a and b

3. In..... switching, the paths in the circuit are separated from one another spatially

- a. Time division      b. two dimensional      **c. space division**      d. three dimensional

4. In Selective reject ARQ, the size of the sender and receiver window size must be at most .....

- a.  $2^{n-1}$**       b.  $2^n + 1$       c.  $2^{n+1}$       d.  $2^n - 1$

5. Most packet switches use this principle .

- a. stop and wait      **b. store and forward**      c. both a and b      d. none

**Question 2: Answer the following questions (5 marks)**

1) Is stop and wait ARQ a half duplex protocol or a full duplex protocol? Explain your answer. (2.5 marks)

**solution:** Half duplex, because A sends to B then stop until B sends back to A (+ve ACK) or (-ve ACK).

2) How packet size affects the transmission time in a packet switching network? (2.5 marks)

**solution:** Transmission time decreases as the packet size reduced. but as the packet size is reduced and data part of the packet becomes comparable to the header part in packet, transmission time increases.