

TRUE / FALSE (30P)

ONE-ONE COM == UNICAST

ONE-MANY COM == MULTICAST

ONE-ALL COM == BROADCAST

- 1) A one to many communication between one source and a specific group of hosts is classified as a multicast communication. **TRUE**
- 2) An IPV4 address is 64 bits long. 2^5 **FALSE**
- 3) One of the main duties of the network layer is the provide node to node communication. **FALSE – DATA LINK LAYER**
- 4) In data communication, protocols define message format order of messages sent and received actions taken on message receipt and data rate. **FALSE**
- 5) In CSMA / CD duplicate sending(s) occur if n nodes start transmit their frames at the same data. ($n \geq 2$) **TRUE**

EMPTY SPACE (24P)

- 1) A one-to-all communication between one source and all hosts a network is classified as a **broadcast** communication
- 2) An IPV6 address consists of 16 bytes.
- 3) An IPV4 address consists of 4 bytes. (octals)
- 4) In the stop and wait protocol, the maximum send window size is 1 and the maximum window size is 1, where n is the number of bits.
- 5) Layer 3 is between the **transport** layer and **link** layer.
- 6) Assuming odd parity, 1001011_ and 0001100_
- 7) Assuming even parity, 1000000_ and 1110111_
- 8) Before data can be transmitted, they must be transformed to **(electromagnetic signals)**

CLASSIC QUESTIONS (30P)

- 1) In CRC if dataword is 1011111 and the divisor 10011, what is the codeword sent ?
- 2) Internet Protocol 5 katmanını yazınız. Açıklayınız.

APPLICATION : support the network FTP HTTP

PRESENTATION : Verinin formatlanması,

SESSION: senkronizasyon

TRANSPORT : data transfer process- processt

NETWORK: routing of the datagram

LINK: komşu ağlar arasında veri transferi yapar.

PHYSICAL: bits on the wire

- 3) 1.Checksum | 2.Timer | 3.Pipelining | 4.Sequence Number | 5.ACK
a.Duplicate Packets | b.Bit errors | c.packet loss | d.ACK loss | e.Utilization

1 *b 2 *d 3 *e 4 *a 5 *c

MULTIANSWER QUESTIONS (15P)

Which of following is not one of com data communication model

Data can flow in both...

One of the main duties of network node to node.

In the selective repeat maximum send window and receive window

UDP and TCP two protocols in layer