جميع الأجوبة صحيحة

Question 1

Error detection at a data link level is achieved by

a. bit stuffing

b. equalization

c. framing

d. cyclic redundancy codes

Question 2

Check sum is used for

a. Error correction

b. Error detection

c. Both a & b

d. None of these

Question 3

if we generate the CRC codeword for the message x^3+1 using the generator polynomial x^3+x+1, we get:

a. 1001101

b. 1001001

c. 1001110

d. 1001111

Question 4

In Go-Back-N ARQ, if 5 is the number of bits for the sequence number, then the maximum size of the send window must be ____.

a. 15

b. 16

c. 31

d. 1

Question 5

In _____ protocols, we use _____.

a. byte-oriented; bit stuffing

b. character-oriented; bit stuffing

c. bit-oriented; bit stuffing

d. none of the above

Question 6

In the ____ Protocol, the sender sends one frame, stops until it receives confirmation from the receiver, and then sends the next frame.

a. Stop-and-Wait

b. ARQ

c. Go-Back-N ARQ

d. Selective-Repeat ARQ

Question 7

A generator that contains a factor of ____ can detect all odd-numbered errors.

a. x

b. x + 1

c. 1

d. none of the above

Question 8

_____ control refers to methods of error detection and correction.

a. Flow

b. Error

c. Transmission

d. none of the above

Question 9

In CRC, the quotient at the sender

a. is discarded

b. is the remainder

c. becomes the divisor at the receiver

d. becomes the dividend at the receiver

Question 10

Which error detection method uses one's complement arithmetic?

a. Simple parity check

b. Two-dimensional parity check

c. CRC

d. Checksum

Question 11

In the _____ protocol we avoid unnecessary transmission by sending only frames that are corrupted.

a. Stop-and-Wait ARQ

b. Go-Back-N ARQ

c. Selective-Repeat ARQ

d. none of the above

Question 12

In Selective Repeat ARQ, if 5 is the number of bits for the sequence number, then the maximum size of the send window must be ____.

a. 15

b. 16

c. 31

d. 1

Question 13

If the value of checksum is 0, then the message is

a. accepted

b. rejected

c. sent back

d. resend

Question 14

In Go-Back-N ARQ, if 5 is the number of bits for the sequence number, then the maximum size of the receive window must be ____.

a. 15

b. 16

c. 31

d. 1

Question 15

In a Go-Back-N ARQ, if the window size is 63, what is the range of sequence numbers?

a. 0 to 63

b. 0 to 64

c. 1 to 63

d. 1 to 64

Question 16

In the _____Protocol, if no acknowledgment for a frame has arrived, we resend all outstanding frames.

a.Stop-and-Wait ARQ

b. Go-Back-N ARQ

c. Selective-Repeat ARQ

d. none of the above

Question 17

The checksum of 0000 and 0001 is _____.

a. 0001

b. 0011

c. 0111

d. 1110

Question 18

Both Go-Back-N and Selective-Repeat Protocols use a _____.

a. sliding frame

b. sliding window

c. sliding packet

d. none of the above

Question 19

In cyclic redundancy checking what is the CRC?

a. the divisor

b. the quotient

c. the dividend

d. the remainder

Question 20

We add r redundant bits to each block to make the length n = k + r. The resulting n-bit blocks are called _____.

a.datawords

b. blockwords

c. codewords

d. none of the above