SUB CODE & NAME: 19ECT301 & COMMUNICATION NETWORKS

MCQ

1. The data link layer takes the packets from _____ and encapsulates them into frames for transmission.
   a) **network layer**
   b) physical layer
   c) transport layer
   d) application layer

2. Which one of the following task is not done by data link layer?
   a) framing
   b) error control
   c) flow control
   d) **channel coding**

3. Which sublayer of the data link layer performs data link functions that depend upon the type of medium?
   a) logical link control sublayer
   b) **media access control sublayer**
   c) network interface control sublayer
   d) none of the mentioned

4. Header of a frame generally contains
   a) synchronization bytes
   b) addresses
   c) frame identifier
   d) **all of the mentioned**

5. Automatic repeat request error management mechanism is provided by
   a) **logical link control sublayer**
   b) media access control sublayer
   c) network interface control sublayer
   d) none of the mentioned

6. When 2 or more bits in a data unit has been changed during the transmission, the error is called
   a) random error
   b) **burst error**
   c) inverted error
   d) none of the mentioned

7. CRC stands for
   a) **cyclic redundancy check**
   b) code repeat check

c) code redundancy check

d) cyclic repeat check

8. Which one of the following is a data link protocol?

   a) ethernet

   b) point to point protocol

   c) HDLC

   d) **all of the mentioned**

9. Which one of the following is the multiple access protocol for channel access control?

   a) CSMA/CD

   b) CSMA/CA

   c) **both (a) and (b)**

   d) none of the mentioned

10. The technique of temporarily delaying outgoing outgoing acknowledgements so that they can be hooked onto the next outgoing data frame is called

    a) **piggybacking**

    b) cyclic redundancy check

    c) fletcher's checksum

    d) none of the mentioned

11. Which one of the following computer network is built on the top of another network?

    a) prior network

    b) chief network

    c) prime network

    d) **overlay network**

12. Communication channel is shared by all the machines on the network in

    a) **broadcast network**

    b) unicast network

    c) multicast network

    d) none of the mentioned

13. A _____ is a device that forwards packets between networks by processing the routing information included in the packet.

    a) bridge

    b) firewall

    c) **router**

    d) all of the mentioned

14. A list of protocols used by a system, one protocol per layer, is called

    a) protocol architecture

    b) **protocol stack**

    c) protocol suit

    d) none of the mentioned

15. Network congestion occurs

    a) **in case of traffic overloading**

    b) when a system terminates

c) when connection between two nodes terminates

d) none of the mentioned

16. Which one of the following extends a private network across public networks?

    a) local area network

    b) **virtual private network**

    c) enterprise private network

    d) storage area network

17. In the layer hierarchy as the data packet moves from the upper to the lower layers, headers are

    a) **Added**

    b) Removed

    c) Rearranged

    d) Modified

18. The structure or format of data is called

    a) **Syntax**

    b) Semantics

    c) Struct

    d) None of the mentioned

19. Communication between a computer and a keyboard involves _____ transmission

    a) Automatic

    b) Half-duplex

    c) Full-duplex

    d) **Simplex**

20. The first Network

    a) CNNET

    b) NSFNET

    c) ASAPNET

    d) **ARPANET**

21. Three or more devices share a link in _____ connection

    a) Unipoint

    b) **Multipoint**

    c) Point to point

    d) None of the mentioned

22. MAC address is of

    1) 24 bits

    b) 36 bits

    c) 42 bits

    d) **48 bits**

23. High speed ethernet works on

    a) coaxial cable

    b) twisted pair cable

    c) **optical fiber**

    d) none of the mentioned

24. Bluetooth is an example of
    a) **personal area network**
    b) local area network
    c) virtual private network
    d) none of the mentioned
25. The maximum size of payload field in ethernet frame is
    a) 1000 bytes
    b) 1200 bytes
    c) 1300 bytes
    d) **1500 bytes**
26. An interconnected collection of piconet is called
    a) **scatternet**
    b) micronet
    c) mininet
    d) none of the mentioned
27. The bluetooth supports
    a) point-to-point connections
    b) point-to-multipoint connection
    c) **both (a) and (b)**
    d) none of the mentioned
28. Bluetooth transceiver devices operate in _____ band.
    a) **2.4 GHz ISM**
    b) 2.5 GHz ISM
    c) 2.6 GHz ISM
    d) 2.7 GHz ISM
29. In this topology there is a central controller or hub
    a) **Star**
    b) Mesh
    c) Ring
    d) Bus
30. Data communication system spanning states, countries, or the whole world is
    a) LAN
    b) **WAN**
    c) MAN
    d) None of the mentioned
31. IPv6 addressed have a size of
    a) 32 bits
    b) 64 bits
    c) **128 bits**
    d) 265 bits
32. Which protocol assigns IP address to the client connected in the internet?
    a) **DHCP**
    b) IP

c) RPC

d) none of the mentioned

33. HTTP is _____ protocol.

   a) **application layer**

   b) transport layer

   c) network layer

   d) none of the mentioned

34. SONET stands for

   a) **synchronous optical network**

   b) synchronous operational network

   c) stream optical network

   d) shell operational network

35. A unidirectional path switching ring is a network with

   a) one ring

   b) **two rings**

   c) three rings

   d) four rings