Question Paper Code: 55404

B.E./B.Tech. DEGREE EXAMINATION, DEC 2020

Fifth Semester

Electronics and Communication Engineering

15UEC504- DATA COMMUNICATION AND NETWORKS

(Regulation 2015)

Duration: One hour   Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. Frequency of failure and network recovery time after a failure are   CO1- R
    measures of the _____ of a network.

    (a) Performance.   (b) Reliability.   (c) Security.   (d) Feasibility

2. Packet-switched   networks   can   also   be   divided   into   CO1- R
    _____subcategories: virtual-circuit   networks   and   datagram
    networks.

    (a) Four.   (b) Three.   (c) Two.   (d) Five.

3. Byte stuffing means adding a special byte to the data section of the   CO2- R
    frame when there is a character with the same pattern as the _____.

    (a) Header.   (b) Trailer   (c) Flag   (d) None of the above

4. In IEEE 802.11, when a frame is going from one AP to another AP   CO2- R
    in a wireless distribution system, the address flag is _____.

    (a) 00   (b) 01   (c) 10   (d) 11

5. The addition of information to a PDU as it is passed from one layer   CO3-R
    to the next is called which of the following?

    (a) Headlining   (b) Encapsulation   (c) Decapsulation   (d) Converting

6. What is the first address of a block of classless addresses if one of   CO3-R
    the addresses is 12.2.2.76/10?.

    (a) 12.0.0.0.   (b) 12.2.0.0.   (c) 12.2.2.2.   (d) none of the above.

7. Transport layer aggregates data from different applications into a single stream before passing it to _____ CO4- R

   (a) network layer   (b) data link layer   (c) application layer   (d) physical layer

8. Which one of the following is a version of UDP with congestion control? CO4- R

   (a) datagram congestion control protocol

   (b) stream control transmission protocol

   (c) structured stream transport

   (d) user congestion control protocol

9. _____ audio/video refers to the use of the Internet for interactive audio/video applications. CO5- R

   (a) Interactive.   (b) Streaming live.

   (c) Streaming stored   (d) none of the above.

10 The WWW today is a _____ client-server service, in which a client using a browser can access a service using a server. CO5- R

   (a) limited.   (b) vast.

   (c) distributed.   (d) none of the above.

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. List the objectives of computer communication networks? What are the network components? Explain	CO1- U	(8)
12. Explain wireless LAN in detail	CO2- U	(8)
13. Define fragmentation and explain why the IPv4 and IPv6 protocols need to fragment some packets. Is there any difference between the two protocols in this matter?	CO3- U	(8)
14. Explain integrated services and Differentiated services	CO4- U	(8)
15. Explain domain name system in detail.	CO5- U	(8)