Reg. No. :

Question Paper Code: 55404A

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. Which layer is responsible for process to process delivery?   CO1- R

   (a) Network layer   (b) Data link layer   (c) Transport layer   (d)Session layer

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.	Explain in detail various guided transmission media	CO1- U	(8)
12.	Explain the operation of sliding window protocol with neat diagram.	CO2- U	(8)
13.	Explain in detail about link state routing..	CO3- U	(8)
14.	Draw and explain the structure of TCP segment	CO4- U	(8)
15.	Explain in detail about Electronic Mail & HTTP.	CO5- U	(8)

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