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Question Paper Code: 53203

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

Fourth Semester

Computer Science and Engineering

15UCS404- COMPUTER 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. What is the use of Bridge in Network? CO1- U
(a) to connect LANs (b) to separate LANs
(c) to control Network Speed (d) to control Network Speed
2. A television broadcast is an example of _____ transmission. CO1- U
(a) half-duplex (b) simplex (c) simplex (d) automatic
3. The _____ Protocol has both flow control and error control. CO1-U
(a) Stop-and-Wait (b) Selective-Repeat ARQ (c) Go-Back-N ARQ (d) Both (b) and (c)
4. Which multiple access technique is used by IEEE 802.11 standard for wireless LAN? CO2- U
(a) CDMA (b) CSMA/CA
(c) ALOHA (d) None of the mentioned
5. The shape of the cellular region for maximum radio coverage is CO3-U
(a) Circular (b) Square (c) Oval (d) Hexagon
6. In connection less protocol, there is no CO3- R
(a) Connection establishment (b) No flow control phase
(c) Connection termination phase (d) Both (a) & (c)

7. Virtual circuit identifier in frame relay is called? CO3-U
- (a) data link connection identifier (b) frame relay identifier
(c) cell relay identifier (d) none of the mentioned above
8. The 4 byte IP address consists of CO4- U
- (a) network address (b) host address (c) both (a) and (b) (d) none of the mentioned
9. The network layer protocol of internet is CO4- R
- (a) ethernet (b) internet protocol
(c) hypertext transfer protocol (d) none of the mentioned
10. In the IPv4 addressing format, the number of networks allowed under Class C CO4- R
addresses is
- (a) 2^{14} (b) 2^7 (c) 2^{21} (d) 2^{24}

PART – B (3 x 8 = 24 Marks)

(Answer any Three of the following Questions)

11. Explain various topologies and give their merits and demerits. CO1- U (8)
12. Explain the concept of spread spectrum with neat diagram. CO1-U (8)
13. Name the protocols that helps to achieve error free transmission of messages CO2- U (8)
over noisy channels . Briefly explain how it is achieved.
14. Explain the various categories of satellites. CO4- U (8)
15. Explain in detail about ARP and RARP. CO4- U (8)