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Question Paper Code: 35402

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

Fifth Semester

Electronics and Communication Engineering

01UEC502 – DATA COMMUNICATION AND NETWORKS

(Regulation 2013)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. The _____ layer changes bits into electromagnetic signals.
(a) Physical (b) Transport (c) Data link (d) None of the above
2. The highest data rate is provided by which of the following medium.
(a) Coaxial cable (b) Optical fiber (c) Microwave (d) Laser beam
3. Data link control deals with the design and procedures for _____ communication.
(a) node-to-node (b) host-to-host (c) process-to-process (d) server-to-server
4. For wireless network, _____ was invented
(a) CSMA/CD (b) CSMA (c) CSMA/CA (d) ALOHA
5. Header of datagram in IPv4 has _____.
(a) 0 to 20 bytes (b) 20 to 40 bytes (c) 20 to 60 bytes (d) 20 to 80 bytes
6. The Routing Information Protocol (RIP) is an intra domain routing based on _____ routing.
(a) distance vector (b) link state (c) path vector (d) none of these

7. _____ is a class-based QoS model designed for IP.
- (a) Integrated Services (b) Differentiated Services
(c) Connectionless (d) Connection-Oriented
8. Which of the following services use TCP?
- (a) DHCP (b) SMTP (c) FTP (d) TFTP
9. _____ is a language for creating Web pages.
- (a) HTTP (b) HTML (c) FTTP (d) none of these
10. Which configuration is not supported in AES?
- (a) 10 rounds with a key size of 128 bits
(b) 12 rounds with a key size of 192 bits
(c) 16 rounds with a key size of 228 bits
(d) 14 rounds with a key size of 256 bits

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Discuss in detail about the various types of switching networks (8)
12. Explain in detail about IEEE 802.11 Bluetooth and its layers. (8)
13. Discuss about IGMP in detail. (8)
14. Explain the segment formats for TCP and UDP. (8)
15. Explain in detail about digital signal line. (8)