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Reg. No. : | | | | | | | | | | |

Question Paper Code: 55404

B.E./B.Tech. DEGREE EXAMINATION, NOV 2018

Fifth Semester

Electronics and Communication Engineering

15UEC504- DATA COMMUNICATION AND NETWORKS

(Regulation 2015)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. Which data communication method is used to send data over a serial communication link? CO1- R

   (a) Simplex (b) Half Duplex (c) Full Duplex (d) All of these

2. The Stop-And-Wait ARQ, Go-Back-N ARQ and Selective Repeat ARQ are for _____. CO2- R

   (a) Noiseless Channel (b) Noisy Channel (c) Either (a) or (b) (d) Neither (a) or (b)

3. In IPv6, the group of computer is defined by _____. CO3-R

   (a) Unicast (b) Both Unicast & Multicast (c) Multicast (d) None of these

4. Any system that involves waiting leads to _____. CO4- R

   (a) Congestion (b) Jamming (c) Slow-start (d) Error

5. The documents in the WWW can be grouped into _____ broad categories. CO5- R

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

PART – B (5 x 3= 15 Marks)

6. Define the following terms. CO1- R
   (a) Protocol
   (b) Network
   (c) Hub

7. What do you mean by Piggybacking? CO2- U

8. Differentiate between IPv4Address and IPv6 Address. CO3- U

9. Sketch the TCP Segment format. CO4- R

10. Use the shift Cipher with key =7 to decrypt the message "OLSSV TF KLHY". CO5- App

PART – C (5 x 16= 80Marks)

11. (a) Describe in detail about the OSI Model. CO1- U (16)

Or

(b) (i) Describe in detail about the various network topologies. CO1- U (12)

(ii) Explain in brief about the TCP/IP model. CO1- U (4)

12. (a) Discuss in brief about the architecture of Wireless LANs. CO2- U (16)

Or

(b) With neat Sketch, describe in detail about Ethernet. CO2- U (16)

13. (a) Summarize in brief about ICMP, ARP, RARP, and IGMP. CO3- U (16)

Or

(b) Explain in detail about distance Vector Routing. CO3- U (16)

14. (a) Discuss in detail about congestion control. CO4- U (16)

Or

(b) Explain in detail about TCP. CO4- U (16)

15. (a) Explain in detail about Electronic Mail & HTTP. CO5- U (16)

Or

(b) Explain in detail about FTP and Domain Name Space. CO5- U (16)