Reg. No. :

Question Paper Code: 55044

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

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. Divides the stream of bits received into data units is called

    (a) Segmentation   (b) Reassembly   (c) Frames   (d) Encryption

2. A _____ is a multi-input, multi-output device that transfers packets from an input to one or more outputs.

    (a) Router   (b) Bridge   (c) Hub   (d) Switch

3. _____ is a routing protocol used to share information between routers to facilitate the transportation of IP multicast packets among networks.

    (a) Multicasting   (b) DVMRP   (c) IBGP   (d) Unicasting

4. TCP is

    (a) Half Duplex   (b) Full Duplex   (c) reliable (d) Both (a) and (b)

5. The _____ is an application-layer Internet standard protocol.

    (a) POP3   (b) SMTP   (c) SNMP   (d) HTTP

PART - B (5 x 3 = 15 Marks)

6. Write short notes on topologies.

7. What is Piggybacking?

8. Abbreviate and brief about RARP.

9. What are the aspects of QOS?

10. What is Domain Name Space?

PART - C (5 x 16 = 80 Marks)

11. (a) Explain the procedures to build a network. (16)

Or

(b) Explain the architecture of OSI model. (16)

12. (a) Write about Selective repeat and NARQ. (16)

Or

(b) Write short notes on Concept of VLAN and its application. (16)

13. (a) Explain unicast routing protocol in detail. (16)

Or

(b) Explain IGMP and DHCP in detail. (16)

14. (a) Brief about UDP and TCP in detail. (16)

Or

(b) Explain congestion control with example. (16)

15. (a) Write short notes on Email and HTTP. (16)

Or

(b) Explain the Concept of cryptography and its types. (16)

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