Reg. No. :

Question Paper Code: 50244

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

Fourth Semester

Computer Science and Engineering

15UCS404 - COMPUTER COMMUNICATION AND NETWORKS

(Regulation 2015)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. The cost of physical media and installation should be

    (a) minimum   (b) maximum   (c) negative   (d) zero

2. _____ are used to transport user data and control information relating to user data.

    (a) S-frame   (b) I-frame   (c) U-frame   (d) K-frame

3. _____ satellite have a distance of almost 36,000 km to earth.

    (a) GEO   (b) MEO   (c) LEO   (d) HEO

4. The boundary between the host and the physical link is called an

    (a) Interface   (b) Port   (c) Terminal   (d) RS-236

5. DNS can be used as an inverted hierarchical tree structure with the root node at the top and a maximum of _____levels.

    (a) 128   (b) 64   (c) 32   (d) 16

PART - B (5 x 3 = 15 Marks)

6. What are the key elements of a protocol?

7. Why does the Ethernet have a constraint on minimum frame length?

8. What is satellite foot print?

9. What is a router and specify instructions?

10. What are the categories of web documents and specify the language which is used for each document?

PART - C (5 x 16 = 80 Marks)

11. (a) Explain in detail about the data transmission in OSI reference model. (16)

Or

(b) Describe the basic concepts of transmission media. Explain any four guided media. (16)

12. (a) What do you mean by wireless LAN ? Explain in detail, the drawbacks. (16)

Or

(b) Explain in detail about error correction using hamming code, with example. (16)

13. (a) How a virtual LAN is different than a normal LAN? Explain the need for virtual LAN. (16)

Or

(b) Describe the basic concepts of frame relay. (16)

14. (a) Define ICMP. Explain in detail about ICMP. Where they are preferred? Why? (16)

Or

(b) Illustrate the basic concepts of packet switched network. Compare with message switched network. (16)

15. (a) What is UDP check sum? Explain with one example. (16)

Or

(b) With a neat diagram, explain the basic model of FTP. State the applications. (16)

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