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Question Paper Code : 41428

B.E/B.Tech. DEGREE EXAMINATION, MAY/JUNE 2013.

Sixth Semester

Electronics and Communication Engineering

CS 1302 – COMPUTER NETWORKS

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write merits and demerits of star topology.
2. List out the components of Networks.
3. Define piggy back.
4. Mention the types of bridges.
5. Define subnet mask.
6. Compare between routers and bridges.
7. What is the need for UDP socket?
8. Mention any two responsibilities of transport layer.
9. Define cyber text.
10. Expand URL and URI and write one example for each of them.

PART B — (5 × 16 = 80 marks)

11. (a) Explain various types of transmission media in detail with their advantages and disadvantages. (16)

Or

- (b) Define topology. Why is it needed? Discuss various network topologies with its merits and demerits. (16)

12. (a) (i) Explain any two error correction code in detail with a suitable example. (8)
(ii) Write a detailed note on sliding window protocol. (8)

Or

- (b) (i) Discuss the architecture of IEEE802.11. (8)
(ii) Write a detailed note on SONET. (8)
13. (a) Explain the following concepts in detail.
(i) Various IP class (4)
(ii) Packet switching (4)
(iii) Routers (4)
(iv) Responsibilities of Network layer. (4)

Or

- (b) Discuss in detail the distance vector routing and link state routing with your own example. (16)
14. (a) Draw a UDP header and datagram header. Explain each of the field in detail with an example. (16)

Or

- (b) (i) Discuss the responsibilities of Transport layer. (8)
(ii) Compare and contrast between UDP and TCP. (8)
15. (a) Explain the components and architecture of DNS. Also mention the features. (16)

Or

- (b) Write note on the following.
(i) SMTP (4)
(ii) FTP (4)
(iii) WWW architecture. (8)