G 1450   (Pages : 2)   Reg. No..................................

                                          Name....................................

B.TECH. DEGREE EXAMINATION, MAY 2012

Sixth Semester

Branch : Computer Science and Engineering/Information Technology

COMPUTER NETWORKS (R, T)

(Regular/Improvement/Supplementary)

Time : Three Hours   Maximum : 100 Marks

Part A

Answer all questions.
Each question carries 4 marks.

1. Compare ISO-OSI Reference model with TCP/IP reference model.

2. Compare satellite communication with Fiber optic communication.

3. What is static and dynamic channel allocation ?

4. Define ALOHA.

5. Explain flow based Routing.

6. Explain Jitter control.

7. Explain service provided by transport layer.

8. Define UDP.

9. Explain the operation of DNS.

10. Describe Bluetooth.

                                                    (10 × 4 = 40 marks)

Part B

Answer all questions.
Each question carries 12 marks.

11. Explain network hardwares in detail.

                        Or

12. Discuss various communication satellites.

13. Explain the performance of sliding window protocol.

                        Or

14. Explain carries sense Multiple access protocols.

15. Explain the following :—

    (a)   Line state routing.   (6 marks)

    (b)   Distance vector routing.   (6 marks)

Or

16. Write notes on :

    (a)   Traffic shaping.   (6 marks)

    (b)   Leaky bucket algorithm.   (6 marks)

17. Explain the elements of transport protocols.

Or

18. Explain "Internet transfer protocols".

19. Explain MIME.

Or

20. Discuss various network topology in Mobile networks.

[5 × 12 = 60 marks]