F 3498 (Pages : 2) Reg. No.....

Name.....

SAINTGITS COLLEGE OF ENGINEERING LIBRARY KOTTAYAM

B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

Seventh Semester

Branch : Computer Science and Engineering

LAN TECHNOLOGY (Elective–I) [R]

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*
Each question carries 4 *marks.*

1. Explain what is FDDI ?
2. How is a LAN different from a WAN ?
3. What is CSMA/CA ? Where is it commonly used ?
4. How is CSMA/CD different from CSMA/CA ?
5. What do you understand by combined speed ?
6. Differentiate between a hub and a switch.
7. Explain what is a print spooler ?
8. Explain what is multiprocessing.
9. Write notes on ARC NET.
10. What is a print queue ? Explain.

(10 × 4 = 40 marks)

Part B

Answer **all** *questions.*
Each full question carries 12 *marks.*

11. Explain the various LAN topologies in detail.

Or

12. (a) Explain ethernet in detail. (6 marks)

    (b) Write notes on LLC. (6 marks)

13. What is a token ? Explain the token passing mechanism in detail.

Or

Turn over

14. (a) What is the importance of protocols in LAN. (6 marks)

(b) Explain any one LAN protocol. (6 marks)

15. Explain and compare port switching and segment switching.

Or

16. Explain what are :

(i) Repeaters.

(ii) Routers.

(iii) Bridges.

17. Explain in detail how a peer–to–peer network operate.

Or

18. (a) List out some of the network operating systems and highlight their features. (6 marks)

(b) Write notes on I/O optimization. (6 marks)

19. (a) What are groups ? How are they helpful in the context of security ? (6 marks)

(b) Write notes on security levels. (6 marks)

Or

20. (a) What is a printer driver ? Why are they used ? (6 marks)

(b) What is meant by logical security ? Explain. (6 marks)

[5 × 12 = 60 marks]

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