F 3514

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B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

Eighth Semester

Branch : Electronics and Communication Engineering/Applied Electronics and Instrumentation/Electronics and Instrumentation Engineering

COMPUTER NETWORKS (LAS)

(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. What are the responsibilities of Network Layer ?

2. Distinguish between simplex and duplex communication.

3. Mention the advantage and disadvantage of stop and wait flow control.

4. What is polling ? Why is it used ?

5. Explain flow control mechanism.

6. Briefly explain the Token ring standard.

7. Write a note on dialogue management.

8. What do you mean by client server model ?

9. What are the different AAL protocols ?

10. Explain ATM cell format.
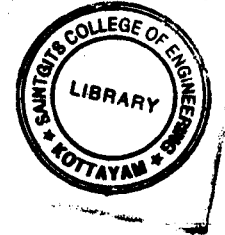
(10 × 4 = 40 marks)

Part B

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

11. List and describe different topologies used for constructing networks.

Or

12. Explain ISO/OSI reference model.

13. Mention the types of frames in HDLC. Give the usage of each frame.

Or

14. What are the techniques used in multiplexing ?

Turn over

15. Discuss about CSMA/CD mechanism.

Or

16. Name the important IEEE- 802 standards and explain their applications.

17. Discuss the need for network security. Explain cryptography.

Or

18. Explain the role of session layer in detail.

19. Explain ATM protocol architecture in detail.

Or

20. What is SDH ? Explain the basic principles of SDH.

(5 × 12 = 60 marks)