

G 1197

(Pages : 2)

Reg. No.....

Name.....

Central WB

B.TECH. DEGREE EXAMINATION, MAY 2016

Eighth Semester

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

COMPUTER NETWORKS (L A S)

(Old Scheme – Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

Time : Three Hours

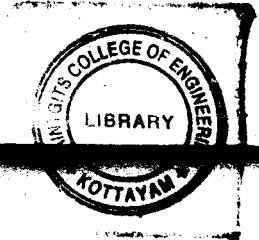
Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 4 marks.

1. Explain the Significance of layering in Internet.
2. Briefly explain full duplex and half duplex communication links.
3. What are the functions of data link layer?
4. What do you mean by piggy backing? Explain the context.
5. How is crash recovery implemented in transport layer?
6. Explain the design aspects of ring network.
7. Enumerate the functions of presentation layer.
8. What is ARPANET? Explain.
9. Explain SONET frame structure.
10. Briefly explain ATM adaptation layer.



(10 × 4 = 40 marks)

Part B

Answer all questions.

Each full question carries 12 marks.

11. Explain TCP/IP protocol and its layers.

Or

12. Explain the various transmission media's used in Internet.

Turn over

13. Write short notes on :

- (a) Sliding window protocol.
- (b) Stop and wait protocol.

(6 + 6 = 12 marks)

Or

14. (a) Explain the various digital modulation schemes used in modem.
(b) Explain congestion control.

(8 + 4 = 12 marks)

15. (a) What is CSMA/CD? Explain its significance.
(b) Explain the mechanism of buffering in a transport layer protocol.

Or

16. Explain the process of establishment and release of a connection between two users.
17. Explain the functions performed by presentation layer.

Or

18. What do you mean by cryptography? Explain the principles of cryptography.
19. Explain ATM focussing on its architecture connections and adaptation layers.

Or

20. Explain the frame structure and principles behind SONET.

[5 × 12 = 60 marks]

