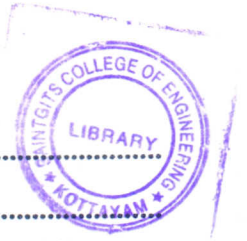


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Reg. No.....

Name.....



**B.TECH. DEGREE EXAMINATION, NOVEMBER 2014**

**Eighth Semester**

Branch : Electrical and Electronics Engineering

COMPUTER NETWORKS (Elective III) (E)

(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. Describe the uses of computer networks.
2. Compare twisted pair and coaxial cable.
3. Write notes on Fiber optic networks.
4. What is a Bridge ?
5. Distinguish between connectionless and connection oriented services.
6. Explain the different approaches of framing.
7. Write notes on Flooding.
8. Compare the virtual circuit and datagram subnets.
9. Explain WWW.
10. What is DNS? Specify its role.

(10 × 4 = 40 marks)

**Part B**

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

11. (a) Briefly explain the various network topologies.  
(b) Explain design issues for the layers.

Or

12. (a) Describe the layers of OSI reference model.  
(b) Explain the error correction and detection.

**Turn over**

13. (a) Explain the services provided by data link layer.  
(b) Explain the Point to Point protocol.

*Or*

14. (a) Explain one-bit sliding window protocol. Go Back N and selective Repeat protocol.  
(b) Explain the Ethernet MAC Sublayer protocol.
15. (a) Describe the concept of Remote Procedure Call.  
(b) Explain design issues of network layer.

*Or*

16. (a) Explain the IPv4 header format.  
(b) Explain CSMA protocol used in LAN.
17. (a) Write notes on IP address.  
(b) Explain Broadcast Routing algorithm.

*Or*

18. (a) Explain connection establishment process in TCP by using handshake mechanism, with a neat diagram.  
(b) What is the significance of Subnetting ? Explain.
19. (a) Explain the Ethernet cabling of following :— 10 Base 2, 10 Base 5, 10 Base-T and 10 Base-F.  
(b) Write a note on E-mail.

*Or*

20. (a) List out the various security problems in network.  
(b) Write a note on Cryptography,

(5 × 12 = 60 marks)

