

**B.E/B.Tech. (Part Time) DEGREE END SEMESTER EXAMINATIONS, APRIL/MAY 2014**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**V SEMESTER**

**PTEC 343/PTEC383 – COMPUTER NETWORKS**

**REGULATIONS : 2002/2005**

**Time: 3 hours**

**Maximum Marks: 100**

**Answer ALL questions**

**PART A ( 10 X 2 = 20 )**

1. Draw the TCP/IP reference model.
2. How will you define a network?
3. Bring out the topologies of physical layer.
4. Give the neat sketch about the working of Token Ring.
5. How will you define Routing?
6. What is the purpose and need for Gateways in a network?
7. How do you define 'Switching' in terms of a network?
8. What are the available internet protocols?
9. Compare and contrast UDP and TCP.
10. What is the purpose and meaning of Digital Signature?

**PART B ( 5 X 16 = 80 )**

- 11.i) With a neat sketch explain the OSI reference model. (8)
- ii) Compare the performance of TCP/IP and ISO/OSI model (8)

12.a) Describe in brief about the physical layer. (16)

(OR)

b) i. Explain briefly about the Ethernet 802.3. (8)

ii. Explain about Token Bus and Token Ring. (8)

13.a) i). What do you mean by Internetworking and bring out the issues related to interconnection.

(OR)

b) Give a brief explanation about the Flow and Congestion control algorithms.

14.a) i) Describe in detail about the Circuit and Packet Switching.

(OR)

b) Explain about the addressing schemes of IPV6.

15.a) With a neat sketch explain about HTTP and FTP.

(OR)

b) . i. Explain in your own words about the Security Requirements for a network. (6)

ii. Explain about the concept of Cryptography and describe about symmetric key algorithms. (10)

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