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Set No. 1

## IV B.Tech I Semester Supplementary Examinations, February/March - 2018 **COMPUTER NETWORKS**

(Electronics and Communication Engineering)

Time: 3 hours Max. Marks: 70 Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B PART-A (22 Marks) What is the difference between LAN and WAN? [3] Explain about the Radio Transmission. [3] What is the basic principle of learning bridge? [4] Describe Optimality Principle for Routing. [4] d) Explain about the TCP Congestion Control. [4] Discuss about the XHTML (eXtended HyperText Markup Language) f) [4] PART-B (3x16 = 48 Marks)2. a) Differentiate OSI reference model with the TCP/IP reference model. [8] Discuss briefly about the original ARPANET design [8] What are the different classes of UTP? Explain. [8] Describe briefly about the circuit-switched networks. b) [8] What is the need of Flow control? Explain the common approaches for flow 4. a) control in data link layer. [8] Explain how slotted ALOHA solves the problem of Channel allocation. [8] b) 5. a) Illustrate Routing of Packets within Virtual Circuit Subnet. [8] Classify the static and dynamic routing algorithms? Explain the basic concept of flooding. [8] With neat sketch, explain different layers of ATM. [6] Draw and explain each field in the TCP Segment header. [10] What is DNS? What resource records are associated with it? Explain. 7. a) [8] b) What are the five basic functions supported in e-mail systems? Explain. [8]