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III/IV B.Tech (Supplementary) Degree Examination**April, 2018****Fifth Semester****Time:** Three Hours**Information Technology****Computer Networks****Maximum : 60 Marks***Answer Question No.1 compulsorily.*

(1X12 = 12 Marks)

Answer ONE question from each unit.

(4X12=48 Marks)

(1X12=12 Marks)

1. Answer all questions

- a) What is Data Communication Networking?
- b) Compare Asynchronous and Synchronous Transmission.
- c) Write short notes on flow control.
- d) Compare connection oriented and Connection less services.
- e) Disadvantage of Distance Vector Algorithm.
- f) Write General Principles of Congestion Control.
- g) List Berkeley Socket primitives.
- h) Write short notes on Buffering.
- i) Write Uses of TCP Protocol compare to other protocols.
- j) Uses of Application Layer.
- k) Write short notes on Message Transfer.
- l) Differentiate Static and Web Documents.

UNIT I

2. a) Explain OSI Reference Model in detail. 6M
 - b) Describe TCP/IP protocol architecture. 6M
- (OR)**
3. a) Describe any one Error Detection method. 4M
 - b) Explain Hamming code Error Correction Technique in detail. 8M

UNIT II

4. a) Compare Virtual-Circuit and Datagram Subnets. 6M
 - b) Explain Hierarchical Routing algorithm in detail. 6M
- (OR)**
5. a) Describe Congestion Prevention Policies. 6M
 - b) Explain Internet Control Protocols in detail. 6M

UNIT III

6. a) Explain the services provided to the upper layers by the transport layer. 6M
 - b) Explain Multiplexing and Crash Recovery in detail. 6M
- (OR)**
7. a) Briefly Explain about UDP. 6M
 - b) Explain TCP Congestion control and TCP Timer Management. 6M

UNIT IV

8. a) Describe DNS Name Space and Name Servers in detail. 8M
 - b) Describe Message formats of Electronic Mail. 4M
- (OR)**
9. a) Explain Architectural Overview of World Wide Web. 6M
 - b) Describe HTTP and Performance Enhancements. 6M