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III/IV B.Tech (Supplementary) DEGREE EXAMINATION

April, 2017

Fifth Semester

Time: Three Hours

Information Technology

Data Communications & Computer Networks

Maximum : 60 Marks

Answer Question No.1 compulsorily.

(1X12 = 12 Marks)

Answer ONE question from each unit.

(4X12=48 Marks)

1. Answer all questions

(1X12=12 Marks)

- a. What is an interface?
- b. What do you mean by bitstuffing?
- c. What is the difference b/n LAN and WAN?
- d. Name any three methods of error detection
- e. What is the functionality of a router?
- f. What is flooding?
- g. What is the purpose of a choke packet?
- h. Define adaptive routing.
- i. Difference between packet switching and circuit switching.
- j. What is the drawback of UDP protocol?
- k. What is the purpose of a RPC
- l. Define MIME

UNIT I

- 2.a Discuss in detail about communication model with neat sketch 6M
- 2.b Explain about error correction techniques. 6M

(OR)

- 3.a Explain in detail about OSI model protocol architecture with neat sketch. 8M
- 3.b Briefly discuss High level data link control protocol 4M

UNIT II

- 4.a Discuss in detail about circuit switched networks. 6M
- 4.b Explain about hierarchical routing 6M

(OR)

- 5.a Explain in detail about congestion control in virtual-circuit subnets. 6M
- 5.b Draw and explain IPV4 Packet header format 6M

UNIT III

- 6.a Write short notes on Berkeley Sockets. 4M
- 6.b Discuss in detail about TCP flow control and buffering 8M

(OR)

- 7.a Explain about real-time transport protocols. 6M
- 7.b Explain in detail about TCP connection management. 6M

UNIT IV

- 8.a Discuss in detail about DNS resource records. 6M
- 8.b Explain about Simple mail transfer protocol. 6M

(OR)

- 9.a Explain in detail about Hyper Text Transfer protocol 6M
- 9.b Differentiate static web documents and dynamic web documents. 6M