

CBCS Scheme

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16SCS22

Second Semester M.Tech. Degree Examination, June/July 2017 Advances in Computers Networks

Time: 3 hrs.

Max. Marks: 80

Note: Answer FIVE full questions, choosing one full question from each module.

Module-1

- 1 a. List and explain the requirements for building computer Networks. (10 Marks)
b. Explain how the stop and wait algorithm provides reliable transmission. (06 Marks)

OR

- 2 a. Illustrate the sliding window algorithm. Also explain sending side procedure for sliding window protocol. (10 Marks)
b. Explain TCP/IP reference model. (06 Marks)

Module-2

- 3 a. With a proper example, explain how bridges use spanning tree algorithm to handle loops. (10 Marks)
b. With an example explain three ways to handle header for source Routing. (06 Marks)

OR

- 4 a. Explain the fragmentation and reassembly of datagram's in IP datagram delivery service model. (06 Marks)
b. With an example explain the need of subnetting. (10 Marks)

Module-3

- 5 a. Describe briefly about the BGP characteristics. (10 Marks)
b. What are the general characteristics of mobile IP Technology? (06 Marks)

OR

- 6 a. Draw and explain IPV6 packet header format. (06 Marks)
b. Explain the Distance Vector Routing algorithm with an example. (10 Marks)

Module-4

- 7 a. Explain the process to process UDP communication with header format and message queue. (10 Marks)
b. Explain different end – to – end issues in TCP protocol. (06 Marks)

OR

- 8 a. Draw and explain TCP header format. (06 Marks)
b. Explain principle of bit – by – bit algorithm under Round – Robin scheme in Fair Queuing. (10 Marks)

Module-5

- 9 a. Explain how RED algorithm avoids congestion. (10 Marks)
b. Explain the Mapping of domain names to addresses. (06 Marks)

OR

- 10 a. Briefly explain the characteristics of HTTP. (06 Marks)
b. With neat diagram, explain structure and representation of MIB object names. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.