



M 26863

Reg. No. :

Name :

VIII Semester B.Tech. Degree (Reg./Sup. – Including Part Time)

Examination, April 2015

(2007 Admn. Onwards)

PT2K6/2K6 EC 803 : COMPUTER COMMUNICATION AND NETWORKING

Time : 3 Hours

Max. Marks : 100

Instructions : Answer all questions.

PART – A

(8×5=40)

- I. 1) What is Ethernet ? Explain the different types of Ethernet.
- 2) Explain the difference between CBR, VBR and UBR traffic.
- 3) What is UDP protocol ?
- 4) Suppose a TCP connection is transferring a file of 5000 bytes. The first byte is numbered 10,001. What are the sequence numbers for each segment if data are sent in five segments, each carrying 1000 bytes.
- 5) Distinguish between M|G|I| and M|M|I queuing model.
- 6) State and prove Little's theorem.
- 7) Explain if ATM layer supports virtual switching.
- 8) Explain ATM PNNI routing.

PART – B

- II. A) What is layerisation ? Explain the functions and services of each layer of OSI/ISO model.

15

OR

- B) Discuss the concept of error control and error detection in communication networks.

(8+7)

P.T.O.



- III. A) Explain in detail network management and protection architecture of SOWET-SDH. 15
OR
B) Draw the TCP segment and explain in detail by giving functions of each header in the frame format. 15
- IV. A) Explain M|G|I queue model. 15
OR
B) Explain M|M|m|m queue model. 15
- V. A) What are the various types of services for data streams provided by ATM ? Explain. Also explain the traffic and error management in ATM. (5+5+5)
OR
B) Explain the main features and advantages of ATM networks. (10+5)
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