Code No: 5404CZ

R17

 5×5 Marks = 25

[10]

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M. Tech II Semester Examinations, June/July - 2019 PRINCIPLES OF COMPUTER COMMUNICATIONS AND NETWORKS (Common to CSE, PE, PE&ED, IT, PE&ES, CN&IS, EPE, CS, EPS)

Time: 3hrs Max.Marks:75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

1.a) Explain the difference between the data communications and telecommunications. [5] Contrast bandwidth and throughput. b) [5] Explain the concepts of data rate and baud rate. c) [5] Discuss the two factors of physical media that can negatively impact data transmission. d) [5] Explain the operation of transceivers. [5] e) PART 4 $5 \times 10 \text{ Marks} = 50$ Classify the networks by their topology? 2.a) Describe the difference between the WAN's and GAN's and give an example. b) [5+5]What si meant by Newton Addressing? Explain with examples. 3.a) Discuss the essential elements of any network: medium and protocols. b) [5+5] 4. Describe the seven layers of the OSI model. [10] Contrast between the client/server model or the peer to peer model. 5.a) b) Discuss the difference between the analog and digital communications. [5+5]6.a) Discuss he Nyquist theorem. Explain the T1 digital carrier scheme. b) [5+5] OR Explain the operation of modem and codec. 7.a) b) Briefly explain the ASK and FSK techniques. [5+5]8. What are the two general types of wireless communications? Explain each one in detail. [10] OR 9.

Describe the concepts of framing, flow control and error control.

- 10.a) Distinguish between various types of PC cards.
 - b) Explain the primary difference between the repeaters, bridges and switches. [5+5]

OR

- 11.a) What is the purpose of BNC terminator? Discuss.
 - b) Write the advantages and disadvantages of having NIC built in to the mother board of a computing device instead of add on component. [5+5]

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