JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M. Tech II Semester Examinations, October/November - 2020
PRINCIPLES OF COMPUTER COMMUNICATIONS AND NETWORKS
(Common to CNIS, CS, CSE, EPS, PE, PEED)

Time: 2 Hours   **Max. Marks: 75**

Answer any five questions
All questions carry equal marks

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1.   Discuss in detail about different network standards.   [15]

2.   Explain Network Addressing with examples.   [15]

3.   Explain OSI reference model and discuss the functions performed by each layer.   [15]

4.   Explain different switching methods and list the merits and demerits of each method.
                                                                                              [15]

5.   Discuss about representing data as analog signals.   [15]

6.a)   Compare the maximum data rate of a noiseless 4 KHz channel using:
       i) QPSK with 2 bits per sample   ii) The T1 PCM system.
  b)   Explain about SONET and SDH with topology.   [8+7]

7.   Explain the physical and electrical characteristics of copper media and fiber optic
      media.   [15]

8.   Write a short notes on the following: [15]
      a) Connectors   b) Trans receivers   c) Repeaters

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