

St. Joseph's College (Autonomous), Bangalore
I Semester IA Examination, Aug 2016
M.Sc (Computer Science)
CS 7315 : Data Communication And Computer Networks

Time 1.5Hrs

Max Marks 35

PART- A

Answer any FIVE questions

7 x5 = 35

1. Explain the functions of OSI Model.
2.
 - a) What is data rate and signal rate in digital transmission.
 - b) Write about the Channel capacity.
3. Explain about NRZ of polar scheme in line coding.
4. Explain the Quantization process in PCM.
5. Explain in detail about Delta modulation.
6. Explain in detail about the guided media.
7.
 - a) Consider a noiseless channel with a bandwidth of 3000 Hz transmitting a signal with two signal levels. Calculate the maximum bit rate.
 - b) An Analog signal carries 4 bits per signal element. If 1000 signal elements are sent per second find the bit rate.