

CLASS: BE  
BRANCH: CSE  
TIME: 60 Min

SEMESTER: 5<sup>th</sup>  
SESSION: MO/25  
FULL MARKS: 10

**Section-CS1**

1. What is the need for protocol Architecture? Describe the key features of protocol. [2]
2. What is the mean by SNR? What is the effect of signal strength and data rate on it? [2]
3. Differentiate between OSI and TCP/IP reference model. [3]
4. Calculate the channel capacity and number of the signaling level, required if the spectrum of a channel is between 3 MHz and 4 MHz and the SNR is 24 dB. [3]