Tutorial 04

MCQ No. 12

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The equation for bit rate (Rate b) of 802.11a standard is given as:
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Rate $b = 0.25xRx48xlog_2 M$

where R = Coding Rate M = the order of modulation 0.25 (Mbaud) = symbol rate 48 = no. of data channels

For QPSK modulation, the M will be 4 and the coding rate, R which is given as ¾ to calculate the bit rate.

MCQ No. 13

The equation for bit rate (Rate b) of 802.11b standard with 5.5 Mbps and 11 Mbps is given as:

Rate b = BaudRate X (A)bits/symbol X (B) bits/sequence

where A and B values are depending on the modulation techniques

To find the BaudRate, you can put in the bit Rate given as 11 Mbps and the bits/sequence for modulation technique is 2-DQPSK is 8 in the above equation.