QUIZ # 1

All Questions carry equal marks

1. Elaborate the statement “There is always trade-off between quality and capacity of cellular network”
2. For a GSM system, what would be the minimum receiving power if maintain signal to noise ratio SNR of 20 dB. Assume the noise at the receiver have parameters Temparature 300 0K, noise figure is 6 dB.
3. Calculate radius of the cell if the sensitivity of mobile is -100 dBm. Assume close-in reference power and close-in reference distance are 10 dBm and 10 m respectively and path-loss exponent is 3.5.
4. Explain difference between fixed and dynamic channel assignment. Also describe benefits of one over other.
5. Describe RAKE receiver.
6. Start from cell A and locate other co-channels of A if i = 2, and j = 1. Interchange i and j and describe what would happen to co-channel cell location.