

INTEGRAL UNIVERSITY
Wireless Communication (EC-604)
IIIrd year 6th Semester
Group: EC1
Quiz-2

Date:

Name:

Branch:

Roll Number:

--	--	--	--	--	--	--	--	--	--

1. The shape of a cell (ideally) in a cellular network is-
 - (a). Square
 - (b). Rectangular
 - (c). Hexagonal
 - (d.) None of the above

2. During a call if the MS moves into a different cell then sometimes the call drops, this situation is caused due to-
 - (a). Improper Hand-off
 - (b). Proper Hand-off
 - (c). Hands-up
 - (d.) Hands-in

3. Interference resulting from signals which are just next to in frequency to the desired signal is called-
 - (a). Co-channel Interference
 - (b). Adjacent Channel Interference
 - (c). Both (a) and (b)
 - (d.) None of the above

4. What does E in EDGE stands for-
 - (a). Encouraged
 - (b). Endowed
 - (c). Enhanced
 - (d). Encrypted

5. If each cell in a cellular network is allocated a group of k channels ($k < S$), and if the S channels are divided among N cells into unique and disjoint channel groups, then the total number of available radio channels can be expressed as -
 - (a). $S = kN$
 - (b). $S = k/N$
 - (c). $S = k + N$
 - (d). $S = k! * N^2$

6. Out of the following techniques for increasing the capacity and coverage area, in a cellular network, which one is most costlier-
 - (a). Microcell Zone Technique
 - (b). Cell Splitting
 - (c). Cell Sectoring
 - (d). Repeaters

7. While increasing the capacity and coverage area the radius of the cell is affected when using -
 - (a). Cell Splitting
 - (b). Microcell Zone Technique
 - (c). Cell Sectoring
 - (d). Repeaters

8. In worst case for a 7 cell cluster the S/I ratio in a mobile system is-
 - (a). 5dB
 - (b). 15dB
 - (c). 1dB
 - (d). 18dB

9. The number of co channel interfering base stations in a 60° and 120° sectoring and using omni-directional base station antennas are respectively-
 - (a). 12, 6, 1
 - (b). 6,12, 1
 - (c). 1,6,12
 - (d). None of these

10. Out of the following cluster size N , which one is incorrect
 - (a). 4
 - (b). 3
 - (c). 7
 - (d). 5

