**Noida Institute of Engineering & Technology, Gr. Noida**

**Wireless Communication (AOE-0772)**

**Assignment No. 1**

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| Q1. What was the main purpose of developing cellular networks? |

Q2. Draw the diagram of and describe the operation of Paging system, Cordless telephone system.

Q3. Define the following:-

(a) Primary purpose of Cellular Network (b) Gateway (c) Base Station (d) PSTN, MIN, ESN, SCM (e) MSC or MTSO (f) Hand off (g) Frequency reuse (h) Cellular Infrastucture

Q4. Describe the advantage of using satellite-based mobile systems.

Q5. What is the concept behind using Frequency Reuse? What are the different channel assignment strategies?

Q6. Why only hexagon is preferred to implement a wireless cell?

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| Q7. Discuss about various hand off strategies and what are the practical hand off considerations.  Q8. Explain the difference between Hard Handoff & Soft Handoff techniques? |

Q9. What is umbrella cell approach? What is cell dragging?

Q10. What is the role of Modulation and Demodulation in Wireless Communication?

Q11. How does a cellular system operates?

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| Q12. What is the role of multiplexing in wireless communication.?  Q13. Explain the key features of WLL systems.  Q14. What are the different types of Antennas used in Wireless systems?  Q15. How are the wireless systems classified? State the major changes in classified wireless systems. |