**DEPARTMENT OF INFORMATION TECHNOLOGY**

**SUBJECT: - WIRELESS NETWORKS**

**SEM: - VI YEAR: - T.E.**

**ASSIGNMENT NO.1**

**Unit No. - I : Fundamentals Wireless Communication**

**Objectives:** Understand the fundamentals of wireless networks

**Outcomes:** Students will be able to explain the basic concepts of wireless network and wireless generations

**Question**

1. List out the Q os attribute in UMTS [05 M]
2. Give the detailed about Radio Access Network [5M]
3. List the 802.11 MAC management functions [5M]
4. Illustrate FHSS & DSSS with suitable example [10M]
5. Explain the advantage and disadvantage of using wireless communication [5M]
6. Explain the evolution of the cellular system highlighting 1G/2G/3G and 4G [10M]
7. What tis spread spectrum? explain the FHSS and DSSS [10M]
8. Write a short note on

a) Electromagnetic spectrum

b) frequency reuse

1. What is UMTS ? List the importunate feature & UMTS air interface [10M]

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| **Issue date** | **Submission date** | **Subject In-charge** |
| **09/02/2019** | **20/02/2019** | **Prof J.M.HATWAR** |
| **BOOKS:-** 1) Wireless communication and networking, Vijay Garg  2) Wireless Communications and networks", William Stallings, Pearson / Prentice Hall  3) Wireless Networks by Nicopoliditis | | |