Total No. of Questions : 4]

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[Total No. of Pages : 1 Oct-22/BE/Insem-113 **B.E.** (Information Technology) WIRELESS COMMUNICATION (2019 Pattern) (Semester-VII) (414445 D) (Elective-IV) Time : 1 Hour] [Max. Marks : 30 Instructions to the candidates: Answer 0.1 or 0.2, 0.3 or 0.4, **1**) 2) Neat diagrams must be drawn wherever necessary. 3) Figures to the right indicate full marks. **4**) Assume suitable data, if necessary. Explain any three types of wireless communications system. *Q1*) a) [9] Compare Cellular Network Generations-1G, 2G, 3G. [6] b) OR Explain advantages and disadvantages of wireless communication. *Q2*) a)

- [5] Explain in detail 3G Cellular System **b**) [5]
 - Explain in detail working of Satellite Communication. c)
- With neat diagram explain the concept of cell and hexagonal geometry *Q3*) a) for cell. 181
 - What is Handoff? Explain Handoff strategies in detail. b)

OR

- Explain concept of cell sectoring and cell splitting. **04**) a) How it improves cellular system's performance? [5]
 - Explain concept of frequency reuse, its advantages and problems. b) [5]
 - Explain Fixed Network Transport Protocols 240.26.29 c) [5]