

Total No. of Questions : 4]

SEAT No. :

**P5254**

[Total No. of Pages : 1

[6188]-210

**B.E. (Information Technology) (Insem)**

**WIRELESS COMMUNICATION**

**(2019 Pattern) (Semester-VII) (Elective-IV) (414445 D)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4.*
- 2) *Neat diagram must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume suitable data if necessary*

- Q1)** a) List and compare different types of wireless communication system. [5]  
b) Briefly explain the different generation of cellular system. [5]  
c) Explain importance of satellite communication in wireless communication. [5]

OR

- Q2)** a) What is 4G? Compare 4G with 5G. [5]  
b) Explain infrared wireless communication. [5]  
c) Explain microwave wireless communication. [5]

- Q3)** a) Explain Microcell Zone concept. [5]  
b) Explain in detail a handoff scenario at the cell boundary. [5]  
c) Explain hexagonal geometry cell structure in the cellular system. [5]

OR

- Q4)** a) What is the need for LTE? Explain the architecture of LTE. [5]  
b) Explain the concept of frequency reuse. [5]  
c) Explain signaling protocols of LTE. [5]

