

Roll No. ....

**24335**

**B. Tech 6th Semester (IT)**

**Examination – May, 2016**

**WIRELESS COMMUNICATION**

**Paper : EE-402-F**

**Time : Three Hours ]**

**[ Maximum Marks : 100**

*Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Attempt *five* questions in total. Question No. 1 is *compulsory* and attempt *one* question from each Section.

1. Explain the following : 4 × 5 = 20
- (a) 2G Vs 3G
  - (b) Tracking and grade off service
  - (c) Spread spectrum multiple access
  - (d) In- building communication

**SECTION – A**

2. (a) Describe wireless local loop system. 10
- (b) Explain how a cellular telephone call is made 10

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3. (a) Explain architecture of Bluetooth networks. 10  
(b) Describe IEEE 802.11 standard for wireless local area network. 10

**SECTION - B**

4. (a) Explain various hands off strategies. 12  
(b) Describe spectrum allocation in cellular mobile system. 8
5. (a) Explain cell splitting and sectoring ? 10  
(b) Explain various performance criteria for cellular mobile systems. 10

**SECTION - C**

6. (a) What do you mean by CSMA ? Explain its various types. 12  
(b) What do you mean by channel capacity ? Find the expression for radio capacity of a cellular system. 8
7. Write notes on : 20  
(a) Traffic routing in wireless networks.  
(b) CSMA protocols.

**SECTION - D**

8. Explain architecture of CDMA networks and compare CDMA networks with GSM networks. 20
9. Write notes on : 20  
(a) Intelligent Networks  
(b) Micro cell systems