

Reg. No. :

Name :

VIII Semester B.Tech. Degree (Supplementary – Including Part Time)
Examination, October 2014

(2007 Admn. Onwards)

PT 2K6/2K6 EC 804 : WIRELESS MOBILE COMMUNICATION

Time : 3 Hours

Max. Marks : 100

1. a) Explain 3G standards. 5
- b) Discuss the limitations of wireless communication. 5
- c) Explain the frequency reuse concept of cellular systems. 5
- d) What is hand off and discuss the need for Hand off. 5
- e) Explain Frii's Free space equation. 5
- f) Discuss the types of small scale fading. 5
- g) What is a PN sequence ? 5
- h) Explain hard and soft hand off. 5
2. a) 1) Explain the wireless communication system. 10
- 2) Discuss the type of modulation used in GSM, CDMA and EDGE. 5

OR

- b) Discuss the steps involved in making a cellular telephone cell. 15
3. a) 1) Explain the different channel assignment strategies used in cellular systems. 10
- 2) Discuss how the choice of a channel assignment strategy affects the performance of a cellular system. 5

OR

- b) Explain the different techniques for improving the coverage and capacity of cellular system. 15

P.T.O.



4. a) Explain the ground reflection model.

15

OR

b) Discuss the parameters of a mobile multi path channel.

15

5. a) Explain the RAKE receiver.

15

OR

b) Explain direct sequence spread spectrum systems, frequency hopped spread spectrum system and time hopped systems.

15

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2. a) 1) Explain the wireless communication system.

2) Discuss the type of modulation used in GSM, CDMA and EDGE.

OR

b) Discuss the steps involved in making a cellular telephone call.

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b) Explain the different techniques for improving the coverage and capacity of cellular system.