

FACULTY OF INFORMATICS**B.E. 4/4 (IT) I – Semester (Suppl) Examination, May 2013****Subject : Wireless and Mobile Communications****Time : 3 hours****Max. Marks : 75****Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B.****PART – A (25 Marks)**

1. What is general packet radio service? 2
2. Define far field distance of a transmitting antenna and relate far field distance to close in distance. 3
3. Define path loss. 2
4. Explain about the basic propagation mechanisms. 3
5. What are the advantages of constant envelope modulation? 2
6. Discuss about pseudo noise sequence. 3
7. Differentiate between wireless and fixed telephone networks. 2
8. Draw the frame structure of GSM. 3
9. Explain about IP packet delivery process. 3
10. What are the problems with mobile IP? 2

PART – B (50 Marks)

- 11.a) Discuss about various channel assignment strategies. 5
b) Describe the capacity improvement techniques in cellular system. 5
12. Explain knife edge diffraction. 10
- 13.a) Explain about the factors that influence the choice of digital modulation. 5
b) Draw the block diagram of DS-SS system. 5
14. Explain TDMA and CDMA. 10
15. Discuss about the different approaches of mobile TCP. 10
16. Explain about any 3 indoor propagation models. 10
17. Write short notes on : 10
a) DHCP
b) Mobile networks
