

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)**

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| 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)

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| 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 | |
