

Code No: 09A80409

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech IV Year II Semester Examinations, July - 2014****WIRELESS COMMUNICATION AND NETWORKS****(Electronics and Communication Engineering)****Time: 3 Hours****Max. Marks: 75**

Answer any Five Questions
All Questions Carry Equal Marks

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- 1.a) Explain the concept of evolution of mobile radio communications around the world.
- b) Differentiate the generations in cordless phones and cellular phones.
- 2.a) What is meant by WLL, WLAN and LMDS and briefly explain the importance of each?
- b) Discuss the developments of second generation wireless networks.
- 3.a) What is an interference? Explain how we can improve coverage and capacity in cellular systems.
- b) With a neat sketch explain handoff.
- 4.a) Explain space division multiple access technique.
- b) Explain different protocols in packet radio.
- 5.a) Give the differences between wireless and fixed telephone networks.
- b) Discuss some wireless data services.
- 6.a) Describe about short messaging service.
- b) Explain GPRS in detail.
- 7.a) Explain the requirements of wireless LANS.
- b) Describe the IEEE802.11 Architecture and services.
- 8.a) Explain OFDM in detail.
- b) Write short notes on HIPERLAN.

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