

Code No: D8201, D7801

**R09**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M.TECH II - SEMESTER EXAMINATIONS, APRIL/MAY 2012**

**WIRELESS NETWORKS**

**(COMMON TO COMPUTER NETWORKS, COMPUTER NETWORKS AND INFORMATION SECURITY)**

**Time: 3hours**

**Max. Marks: 60**

**Answer any five questions**

**All questions carry equal marks**

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1. Explain the characteristics of wireless medium.
- 2.a) What are the applied wireless transmission techniques?  
b) Compare various modulation schemes used in wireless networks.
3. In wireless medium access, explain
  - a) Fixed-assignment for voice-oriented networks
  - b) Random access for data-oriented networks.
- 4.a) Discuss the various wireless network topologies.  
b) Explain the signal-to-interference ratio calculation in wireless networks.  
c) What is the shape of a cell? Explain.
- 5.a) Explain the radio resources and power management in wireless networks.  
b) What are security issues in wireless networks? Explain.
6. Explain WAP architecture and its components.
- 7.a) Describe the physical layer of Bluetooth.  
b) What are the Security and Networking issues of Bluetooth? Explain them.
- 8.a) Explain the WLAN configurations.  
b) Describe IEEE 802.11 standards.

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