

**R09**

**Code No: C6308, C2506, C6206**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M.Tech I - Semester Examinations March/April-2011**

**WIRELESS NETWORKS AND MOBILE COMPUTING**

**(COMMON TO IMAGE PROCESSING, SOFTWARE ENGINEERING, WEB TECHNOLOGIES)**

**Time: 3hours**

**Max.Marks:60**

**Answer any five questions  
All questions carry equal marks**

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1. (a) Write about the different categories of Wireless Networks.  
(b) Discuss the Infrastructure of Ad-hoc Networks. [12]
2. (a) Explain the GSM Architecture with neat diagram.  
(b) Brief about the GSM Addressing mechanism. [12]
3. Explain the agent advertisement and discovery process in IP based Mobile Networks. [12]
4. Compare the Indirect TCP and Mobile TCP in transport layer of mobile networks. [12]
5. Explain the multimedia object transfer protocol in detail. [12]
6. (a) Explain the protocol architecture of WAP.  
(b) Explain the functions of Link manager in Bluetooth. [12]
7. What are the different types of markup languages discuss WML and Voice XML in detail. [12]
8. (a) Write short notes on WAP Security.  
(b) What is Smart client security and how it is used in mobile environment. [12]

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