Code No: C6206,C2506

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.TECH I - SEMESTER EXAMINATIONS APRIL/MAY-2012 WIRELESS NETWORKS AND MOBILE COMPUTING (COMMON TO WEB TECHNOLOGIES, SOFTWARE ENGINEERING) Time: 3hours Max.Marks:60

Answer any five questions All questions carry equal marks

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- 1. Explain the protocol architecture of HIPERLAN with a neat sketch.
- 2. Explain the significance of MAC sub-layer in wireless and mobile systems. Illustrate the hidden and exposed terminal problems. Discuss about their solutions.
- 3.a) With respect to Mobile IP, explain the concepts of encapsulation and tunneling.
 - b) Explain the concept of reverse tunneling.
- 4. State the reasons for unsuitability of traditional TCP for mobile environment. Explain how I-TCP overcomes those issues through a neat sketch.
- 5. Explain the following:
 - a) WAP
 - b) Thin-client Computing.
- 6. What is Push model? Write the algorithm for Broadcast Disk Model. Illustrate through an example.
- 7. Compare and contrast the two routing protocols of Mobile Ad hoc Networks-AODV and DSDV.
- 8. Write on the following:
 - a) GPRS Protocol
 - b) Bluetooth Technology.

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