

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. Sem. – IInd - Examination – June/July- 2011

Subject code: 1722702

Subject Name: Ad hoc Networks

Date: 24/06/2011

Time: 10:30 am – 01:00 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a) Draw and explain an electromagnetic spectrum. 07
(b) Discuss the architecture of PRNETs. 07
- Q.2 (a) Enlist Ad hoc routing protocols. 07
(b) What is Ad hoc network heterogeneity in mobile services? 07
OR
(b) Explain the characteristics of the wireless channel. 07
- Q.3 (a) Discuss the issues in designing a multicast routing protocol. 07
(b) Discuss security issues in Ad hoc wireless networks. 07
OR
- Q.3 (a) Compare tree-based multicast routing protocols with mesh-based multicast routing protocols. 07
(b) Discuss designing issues in transport layer protocol for Ad hoc wireless networks. 07
- Q.4 (a) Discuss issues and challenges in providing QoS in Ad hoc wireless networks. 07
(b) Explain dependent multicast routing. 07
OR
- Q.4 (a) What is the need of energy management in Ad hoc wireless networks? 07
(b) Explain Wireless sensor networks. 07
- Q.5 (a) Explain wireless sensor network architecture. 07
(b) Explain location aid routing (LAR). 07
OR
- Q.5 (a) Classify energy management schemes in Ad hoc wireless networks. 07
(b) Classify QoS solution in wireless Ad hoc networks. 07
