GUJARAT TECHNOLOGICAL UNIVERSITY ME- SEMESTER II— EXAMINATION – SUMMER 2015

Subject Code: 2722312 Date: 30/05/2015 Subject Name: WIRELESS ADHOC NETWORK Time: 2:30 PM – 5:00 PM **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 0.1 (a) Explain application of adhoc network. **07 (b)** Explain Contention Based Protocols with Reservation Mechanism. 07 (a) List Different types of MAC protocol and explain any one. 0.2 07 **(b)** Explain issues in adhoc wireless network 07 (b) Discuss Issues in designing a MAC Protocols for Ad Hoc Wireless Networks 07 Q.3 (a) List various routing protocols in Ad Hoc Wireless Networks and explain DSR 07 in detail. **(b)** Explain tree based multicast routing protocols. 07 0.3 (a) Explain various AODV Routing Protocols. 07 **(b)** Write a short note on TCP over Ad Hoc Wireless Networks. 07 **Q.4** Explain role of energy management in Ad Hoc Wireless Networks. 07 Discuss Issues in designing a Multicast Protocols for Ad Hoc Wireless 07 Networks. OR (a) Discuss Issues and challenges in providing QoS in Ad Hoc Wireless Networks. 07 0.4 **(b)** Write a short note on Network Security Attacks and Key Management. 07 (a) Explain QoS Solutions at MAC layer. Q.5 07 **(b)** Write a short note on Ad Hoc Wireless Networks Security. 07

(a) Explain QoS Solutions at Network layer.

(b) Explain various power management schemes.

Q.5

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