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

Subject Code: 2724115 Date: 30/05/2015 **Subject Name: Adhoc and Wireless Sensor 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 07 (a) Explain in details the Architecture of PRNETs. (b) Compare Cellular and Ad Hoc Wireless Network. List applications of Ad Hoc 07 network. (a) List and explain the Issues in Designing a Routing Protocols for Ad Hoc Q.207 Wireless Network. **(b)** Why does TCP not perform well in Ad Hoc Wireless Network? 07 (b) Which are the types of operation in multicast routing protocols? Explain them 07 in details. Q.3 (a) Explain classification of Routing Protocols. 07 (b) List the classifications of Energy Management Schemes. Explain the Battery 07 Scheduling techniques. OR (a) Explain Issues and Design goals of a Transport control protocols for Ad Hoc Q.307 wireless network. (b) Which are the Issues and Challenges in providing QOS in Ad Hoc wireless **07** network? Explain in details. **Q.4** (a) Explain challenges and limitation of Wireless Sensor Network. 07 Explain Flooding and its Variants in WSNs. 07 0.4 Write a short note on applications of Wireless Sensor Networks. 07 (a) Explain routing challenges and design issues in WSNs. 07 0.5 Explain schedule selection and synchronization in S-MAC. 07 (a) **(b)** Draw and explain Software Components of Wireless Sensor Network. 07 (a) Explain LEACH routing algorithm in WSNs. 0.5 07 **(b)** Discuss one operating system (OS) used in WSNs. 07
