Reg. No.					



SEVENTH SEMESTER B.Tech. (E & C) DEGREE END SEMESTER EXAMINATION NOV/DEC 2017

SUBJECT: WIRELESS SENSOR NETWORKS (ECE - 4037)

TIME: 3 HOURS MAX. MARKS: 50

Instructions to candidates

- Answer **ALL** questions.
- Missing data may be suitably assumed.
- 1A. Explain the deployment considerations of an ad hoc wireless system.
- 1B. Compare the Cellular networks and Ad hoc wireless Networks.
- 1C. Explain the applications of Ad hoc wireless networks.

(5+3+2)

- 2A. Describe the major issues of Ad hoc Wireless Internet. Also mention the functions of Gateway nodes in Ad hoc Wireless Internet.
- 2B. Compare the features of MANETs and WSNs. Mention the similarities and differences.
- 2C. Explain the working of LEACH protocol.

(5+3+2)

- 3A. Explain in detail the S-MAC protocol in WSN.
- 3B. Mention the classification of MAC protocols for WSNs. Explain any three protocols.
- 3C. What are PSFQ and ESRT Protocols in WSN? Explain them.

(5+3+2)

- 4A. Explain DSDV and AODV routing protocols with suitable examples in Ad hoc wireless networks. Mention the advantages and disadvantages of each protocol.
- 4B. Explain the query control mechanisms in ZRP for Ad hoc wireless networks.
- 4C. Draw the classification of routing protocols in Ad hoc wireless networks based on various aspects.

(5+3+2)

- 5A. Explain the issues and challenges in providing QoS in Ad hoc Wireless networks.
- 5B. Explain any three design choices in providing QoS support for Ad hoc Wireless networks.
- 5C. Describe any two Networks layer protocols that give solutions for providing QoS.

(5+3+2)

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