

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(ECE) (2011 Batch E-III)
B.Tech.(ETE) (2011 Onwards E-III) (Sem.-7,8)
WIRELESS SENSOR NETWORK
Subject Code : BTEC-920
Paper ID : [A3015]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A**1 Answer briefly :**

- a) List the application areas of Sensor networks.
- b) Discuss the issues in WSN routing.
- c) Describe the terms self configuration and auto configuration.
- d) What are the various energy consumption operations in WSN?
- e) Define Gateway concept.
- f) Mention various performance matrices of WSN.
- g) List the various modes of operation of a sensor node.
- h) Define routing. Highlight the salient feature of location-based routing.
- i) Discuss on any one method for duplicate address detection.
- j) What multi path propagation mechanisms are considered in WSN deployments?

SECTION-B

2. Describe the sensor node architecture with appropriate figure.
3. Explain energy aware protocols in WSN.
4. Explain ASCENT in detail.
5. What is Geographic routing? Discuss in detail.
6. Write short note on Berkeley Motes.

SECTION-C

7. Explain the issues in designing the MAC protocols in ad hoc networks and describe the classification of MAC protocols.
8. Discuss in detail the emerging technologies for wireless sensor networks.
9. Write short notes on :
 - a) Geographic Adaptive Fidelity.
 - b) Geographic Random Forwarding.

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