

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
M.Code : 71925

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. What is black hole attack in wireless sensor network?
- b. Define and differentiate between homogeneous and heterogeneous deployment in wireless sensor network.
- c. Explain exposed node problem with suitable example.
- d. Explain the different components of B-MAC protocol.
- e. What data forwarding interruption problem?
- f. Define network lifetime.
- g. What is Berkeley Motes?
- h. What is adaptive fidelity?
- i. What is GEAR?
- j. Define figure of merit.

SECTION-B

- 2) Explain different types of data aggregation attacks in case of sensor networks.
- 3) Write short note on state centric programming.
- 4) Discuss table driven protocols with example.
- 5) Write short note on Geographic Random Forwarding.
- 6) Discuss Sensor node hardware in detail.

SECTION-C

- 7) What is the minimal information required for binary proximity to find the location of a unknown node?
- 8) Explain different challenges of sensor database.
- 9) Write short note on :
 - a. GAF
 - b. GeRaF.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.