

Roll No.

24447

**B. Tech. 7th Semester (ECE)
Examination – December, 2016**

WIRELESS SENSOR NETWORK

Paper : ECE-411-F

Time : Three Hours] [Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is *compulsory*. Attempt *one* question from each Unit.

1. (a) What is a wireless sensor network ? 4
- (b) What are the hardware components of a wireless sensor network ? 4
- (c) What are the requirements of a MAC protocols ? 4
- (d) What is wake up radio concept ? 4
- (e) What is clustering ? 4

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UNIT – I

2. What are the challenges and the required mechanisms of a Wireless Sensor network ? 20
3. What are the various applications of wireless sensor networks and explain any two with an example each. 20

UNIT – II

4. Explain in detail the hardware components used in WSN architecture. 20
5. Explain in detail about the Gateway concepts. 20

UNIT – III

6. Explain the design approaches and performance of S-MAC protocol. 20
7. Discuss in detail the Transceiver characteristics and structure. 20

UNIT – IV

8. Explain in detail about different topology control mechanisms. 20
9. Explain about various clustering mechanisms in WSN. Also explain in detail about the sensor tasking and control. 20

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