

Total No. of Questions : 6]

SEAT No. :

P1340

[Total No. of Pages : 1

BE/Insem/APR-211

B.E. (E & TC)

WIRELESS SENSOR NETWORK

(2015 Pattern) (Elective - IV) (Semester - II)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Neat diagrams must be drawn wherever necessary.*
- 2) *Figures to the right indicate full marks.*

- Q1)** a) What is Wireless Sensor Network? Explain architecture of WSN. [6]
b) What are various types of Sensor Network? [4]

OR

- Q2)** a) Explain various hardware components of sensor node with the help of diagram. [6]
b) Explain following parameters with reference to operating system of WSN. [4]
i) Memory Management
ii) Interrupts

- Q3)** a) What are metrics of MAC protocol and explain algorithm for TDMA MAC. [6]
b) Explain properties of Wireless Link. [4]

OR

- Q4)** a) What are different Error Control Methods? Explain with examples. [6]
b) Write short note on CSMA. [4]

- Q5)** a) Draw & explain the protocol stack of WSN. [6]
b) Explain Low rate WPAN protocol. [4]

OR

- Q6)** a) Compare BLE and ANT. What are the advantages of ANT over BLE? [6]
b) Explain cross-layer protocol in WSN. [4]

