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SEAT No. :

P1340

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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]

