SEAT No. :

P-5289

[6188]-250

B.E. (Robotics & Automation Engineering) (Insem)
WIRELESS SENSOR NETWORK
(2019 Pattern) (Semester - VII) (Elective - III) (411503 B)

Time : 1 Hour]   *[Max. Marks : 30*

Instructions to the candidates :

1) *All questions are compulsory i.e. Solve Q.1 or Q.2, Q.3 or Q.4.*
2) *Assume suitable data, if necessary.*
3) *Figures to the right side indicates full marks.*
4) *Neat diagrams must be drawn wherever necessary.*

Q1) a) Define Wireless sensor networks and mention its applications. **[8]**

    b) Explain performance metrics in WSN. **[7]**

OR

Q2) a) Explain Anatomy of sensor node in detail with proper diagram and Explain about energy consumption of sensor nodes in detail. **[8]**

    b) Explain seven layered architecture of OSI model in detail with proper diagram. **[7]**

Q3) a) Explain Medium access protocol in detail. **[8]**

    b) Explain wireless links and state any 4 valid properties of wireless links in detail. **[7]**

OR

Q4) a) Explain Error control and topology control in wireless links. **[8]**

    b) Explain Radio communication and modulation and demodulation of radio waves in detail. **[7]**

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