

Total No. of Questions : 8]

SEAT No. :

P119

[5871]-622

[Total No. of Pages : 2

B.E. (Electronics & Telecommunication)

WIRELESS SENSOR NETWORK

(2015 Pattern) (Semester - II) (Elective-IV) (404192 C)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8,
- 2) Figures to the right side indicate full marks.
- 3) Assume suitable data, if necessary.

- Q1)** a) Explain operating system of WSN in terms of Tasks Threads and Events [6]
b) Compare sensor MAC and BMAC [8]
c) Explain cross layer Protocol stack [6]

OR

- Q2)** a) What is wireless sensor Network? Explain with sample applications. [8]
b) Give significance of Naming and Addressing in WSN. [6]
c) Write note on (any two) [6]
i) Zigbee
ii) Wibree
iii) BLE

- Q3)** a) What is localization? Explain its need [8]
b) What are various routing scenarios in WSN? [8]

OR

- Q4)** a) Explain Range Based localization in WSN [8]
b) Explain [8]
i) Collection Tree Protocol
ii) Multi-hop communications

P.T.O.

- Q5) a) Write a note on In Network Processing and Data Aggregation [10]**
b) How security plays an important role in WSN Explain. [8]

OR

- Q6) a) What are various security protocols in WSN? Explain one in detail [10]**
b) Explain Denial of service attack at network layer [8]

- Q7) a) Write a note on Early WSN Deployments [8]**
b) Explain Bottom -up implementation process in WSN deployments. [8]

OR

- Q8) a) What are general problems for Deploying WSN applications? [8]**
b) What are steps involved in requirement analysis of WSN. [8]

