

Total No. of Questions :8]

SEAT No. :

**P3970**

**[5561]-671**

[Total No. of Pages :2

**B.E. (E & TC)**

**WIRELESS SENSOR NETWORKS**

**(2015Course) (Semester - II) (End Semester) (Elective-IV)**

*Time : 2:30Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

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

**Q1) a) What are the performance metrics of WSN, Explain. [8]**

b) Explain B.MAC protocol. [6]

c) Explain 6LOWPAN protocol. [6]

OR

**Q2) a) Write a short note on sensor Network Communication stack. [8]**

b) What in significance of naming and addressing in WSN. [6]

c) Explain in detail Insteon protocol. [6]

**Q3) a) What are challengor in localization, explain. [8]**

b) Explain what are different ranging schemes. [8]

OR

**Q4) a) Explain what are routing metrics in WSN. [8]**

b) What in location based routing explain. [8]

**Q5) a) What are different clustering techniques Explain any two. [10]**

b) Explain communication security in WSN. [8]

OR

**P.T.O.**

**Q6) a)** Explain the Denial of- service attack at each layer. [10]

b) What in data aggregation in WSN, explain. [8]

**Q7) a)** Explain design and deployment w.r.t any one WSN application. [8]

b) What is testing and validation in WSN application [8]

OR

**Q8) a)** Explain top down approach in design. [8]

b) Write a short note on requirement analysis. [8]

