## SUBJECT: EIECTIVE – I WIRELESS SENSOR NETWORK

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| Day: Wednesday | | Time: 02.30 PM TO 05.30 PM |
| Date: 15/05/2019 | S-2019-2865 | Marks: 60 |

**N.B:**

1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Assume suitable data, if necessary.

**Q.1**  Write down 10 applications of WSN?  **(10)**
**OR**
Explain the following with respect to WSN:
a)Node service  b)Evaluation Metric  c)Embedded system  d)System performance

**Q.2**  What are the estimation theory techniques?  **(10)**
**OR**
Why tracking multiple targets is more challenging than tracking single target?

**Q.3**  Explain the following with respect to parameter routing:  **(10)**
a)Other face routing   b)Spanner c) Stretch factor  d)convex parameter routing
**OR**
Differentiate between convex parameter routing and adaptive routing?

**Q.4**  Why Clustering is needed in sensor network? List down the reasons and  **(10)**
explain each.
**OR**
What are the ranges based localized algorithm?

**Q.5**  Explain Mahaoboi's distance?  **(10)**
**OR**
What are the steps required for cluster-leader based protocol?

**Q.6**  Define Cougar sensor database? Explain its importance  **(10)**
**OR**
How sensor network is different from traditional centralized system?

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