

B. Tech. Sem -VII (E & TC Engg.) (2014 COURSE) (CBCS) :
WINTER - 2018
SUBJECT: ELECTIVE – I WIRELESS SENSOR NETWORK

Day: Monday
Date: 03/12/2018

W-2018-2600

Time: 02.30 PM TO 05.30 PM
Marks: 60

N.B:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Assume suitable data, if necessary.
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Q.1 How multihop network is better than single hop network? **(10)**

OR

Explain the following with respect to WSN:

a)Localization b)Tracking c)resource d)Sensor tracking

Q.2 What are the notations used in formulation of a tracking problem in WSN? **(10)**

OR

Differentiate between acoustic sensor and direction of arrival sensor?

Q.3 Explain the following with respect to directed diffused algorithm: **(10)**

a)Sink b)gradient c)event d)Reinforced Pattern

OR

List down the several characteristics of WSN with respect to specialized MAC

Q.4 Why time synchronization is needed in sensor network? Explain with an example **(10)**

OR

What are the problems of Topology control and how to rectify them?

Q.5 What are the parameters taken into account for sensor selection? **(10)**

OR

Differentiate between task driven and information based sensor tasking?

Q.6 Write down a SQL query for Flood warning system with respect to WSN for City Pune? **(10)**

OR

What is Tiny DB query processing? Which SQL operations are supported by Tiny DB?

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