

B-Tech-sem-VII, (2014 course), E & TC
winter-2018

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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