

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
M.Tech. Winter 2018 - 19 Examination

Semester: 1
Subject Code: 203202131
Subject Name: Wireless Sensor Network

Date: 12/12/2018
Time: 10:30 am to 01:00 pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1** A) Explain sensor architecture. (05)
B) Define sensor, sensing and sensing process. (05)
C) Compare cross layer network architecture with traditional network. (05)
- Q.2** Answer the following questions. (Attempt any three) (Each five mark) (15)
A) Explain wireless standards.
B) List and describe MANET protocols.
C) Explain opportunistic routing.
D) Explain asynchronous duty cycle.
- Q.3** A) List and explain design factor of WSN. (07)
B) Explain MACA with diagram. (08)
- OR**
- B) Explain MACAW in details. (08)
- Q.4** A) List design concerns of MAC protocol. (07)
- OR**
- A) Classify MAC protocol and explain in brief. (07)
B) Explain SPIN security protocol. (08)