

X

NPTEL

reviewer2@nptel.iitm.ac.in ▼

Courses » Wireless Adhoc And Sensor Networks

Announcements Course Ask a Question Progress



## Unit 7 - Week 6

### Course outline

How to access the portal

Week 1:

Week 2

Week 3

Week 4

Week 5

Week 6

- Lecture 26: Mobile Wireless Sensor Networks
- Lecture 27: Medium Access Control in Wireless Networks- Part-I
- Lecture 28: Medium Access Control in Wireless Networks- Part-II
- Lecture 29: Routing in Wireless Sensor Networks- Part-I
- Lecture 30: Routing in Wireless Sensor Networks- Part-II
- Week 6: Lecture Material
- Feedback for week 6
- Quiz : Assignment

## Assignment Week 6

The due date for submitting this assignment has passed. **Due on 2018-03-21, 23:59 IST**  
As per our records you have not submitted this assignment.

1) 1. Which of the following statements does not describe the S-MAC protocol correctly? 1 point

- Energy dissipation is reduced in S-MAC through idle listening
- Implementation of the algorithm is simple
- The sleep and listen vary constantly based on the network traffic conditions
- All of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*The sleep and listen vary constantly based on the network traffic conditions*

2) Which is not a protocol of SPIN family? 1 point

- SPIN-PP
- SPIN-PC
- SPIN-EC
- SPIN-BC

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*SPIN-PC*

3) The goal of participatory sensing is/are 1 point

- Only collect data
- Allow people to access data
- Share knowledge
- All of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All of the above*

4) Why is implementation of MAC protocols important in context of WSNs? 1 point

- Supports multi-hop communication, alongside single-hop
- Special design for energy-constrained environments
- Support for Ad-hoc node deployment
- All of the above

Week 6

 Assignment  
Solution Week 6

Week 7

Week 8

**DOWNLOAD  
VIDEOS**
**No, the answer is incorrect.****Score: 0****Accepted Answers:***All of the above*

5) Which is not a cause for undesired energy wastage in WSNs?

**1 point**

- Sensing of events
- Idle listening
- Overhearing in case of densely deployed sensor networks
- Collision of transmitted frames

**No, the answer is incorrect.****Score: 0****Accepted Answers:***Sensing of events*

6) Which of the following is the example of flat routing?

**1 point**

- SPIN
- CFFR
- All of these
- None of these

**No, the answer is incorrect.****Score: 0****Accepted Answers:***SPIN*

7) LEACH uses dynamic \_\_\_\_\_ cycles.

**1 point**

- CDMA
- FDMA
- TDMA
- OFDMA

**No, the answer is incorrect.****Score: 0****Accepted Answers:***TDMA*

8) Which is a negotiation based routing scheme?

**1 point**

- Directed Diffusion
- SPIN
- SPEED
- TTDD

**No, the answer is incorrect.****Score: 0****Accepted Answers:***SPIN*

9) What is the difference between the 3-color and 4-color topdisc mechanisms? a. 4-color topdisc mechanism does not have a cluster head node b. Unlike the 3-color topdisc, nodes may have red or blue color in 4-color topdisc mechanism c. Grey color is not present in 3-color topdisc mechanism d. Dark grey color is not present in 3-color topdisc mechanism

**1 point**

- 4-color topdisc mechanism does not have a cluster head node
- Unlike the 3-color topdisc, nodes may have red or blue color in 4-color topdisc mechanism
- Grey color is not present in 3-color topdisc mechanism
- Dark grey color is not present in 3-color topdisc mechanism

**No, the answer is incorrect.****Score: 0**

**Accepted Answers:**

*Dark grey color is not present in 3-color topdisc mechanism*

10) Which statement is false in context of the LEACH protocol?

1 point

- In the setup phase, clusters are created and cluster heads are determined
- The nodes join the cluster nearest to them with the strongest signal
- In the steady state phase, CSMA-based solutions are used for inter-cluster communication
- In the steady state phase, TDMA-based solutions are used for inter-cluster communication

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*In the steady state phase, CSMA-based solutions are used for inter-cluster communication*



Previous Page

End

© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -

A project of



In association with



Funded by

Government of India  
Ministry of Human Resource Development

Powered by

