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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

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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

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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



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