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

   **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?

- 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:
All of the above

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

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

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

7) LEACH uses dynamic ______ cycles.

- CDMA
- FDMA
- TDMA
- OFDMA

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

8) Which is a negotiation based routing scheme?

- 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

No, the answer is incorrect.
Score: 0
Which statement is false in context of the LEACH protocol?

- 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