Assignment Week 5

The due date for submitting this assignment has passed. **Due on 2018-03-14, 23:59 IST**

As per our records you have not submitted this assignment.

1) Solution for optimal coverage includes the important parameters as: 1 point

- Coverage requirement
- Detection time
- Number of sensors
- All of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All of the above*

2) Typically, ratio between transmission range and sensing range is: 1 point

- 2:1
- 1:1
- 1:2
- None of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*2:1*

3) Adequate placement of sensor node is important to ensure 1 point

- Adequate power consumption
- Adequate transmission
- Adequate coverage
- None of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Adequate coverage*

4) An example of coverage algorithm is 1 point

- CoRD
- OGDC
- OMN
- All of these
No, the answer is incorrect. 
Score: 0

Accepted Answers: 
OGDC

5) Which of the following algorithms is known for establishing the connectivity in the presence of dumb nodes? 

- INTSEM
- CoRD
- OGDC
- None of the above

No, the answer is incorrect. 
Score: 0

Accepted Answers: 
OGDC

6) 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

7) Which statement is false with respect to the EMACs protocol? 

- EMACs is a fully centralized algorithm
- The active nodes periodically transmit short control messages
- The dormant nodes are the nodes which run critically low in energy
- None of the above

No, the answer is incorrect. 
Score: 0

Accepted Answers: 
EMACs is a fully centralized algorithm

8) K-barrier coverage requires a barrier to be covered by: 

- At least k sensors
- At least 1 sensors
- At least 2 sensors
- At least 3 sensors

No, the answer is incorrect. 
Score: 0

Accepted Answers: 
At least k sensors

9) Which statement is true with respect to the LMAC protocol? 

- The control messages transmitted are of fixed length
- LMAC ensures collision-free communication
- A node may transmit either a control message or a data frame during any time slot
- All of the above

No, the answer is incorrect. 
Score: 0

Accepted Answers: 
All of the above

https://onlinecourses-archive.nptel.ac.in/noc18_cs09/unit?unit=42&assessment=99
Which is not a variant of S-MAC?

- Timeout MAC (TMAC)
- Dynamic sensor MAC (DSMAC)
- Input-Output MAC (IOMAC)
- Data gathering (DMAC)

No, the answer is incorrect.
Score: 0

Accepted Answers:
Input-Output MAC (IOMAC)