

X

NPTEL

reviewer2@nptel.iitm.ac.in ▼

Courses » Wireless Adhoc And Sensor Networks

Announcements Course Ask a Question Progress



Unit 6 - Week 5

Course outline

How to access the portal

Week 1:

Week 2

Week 3

Week 4

Week 5

- Lecture 21: Introduction: Wireless Sensor Networks- Part-I
- Lecture 22: Introduction: Wireless Sensor Networks- Part-II
- Lecture 23: WSN Coverage & Placement- Part-I
- Lecture 24: WSN Coverage & Placement- Part-II
- Lecture 25: Topology Mangement in Wireless Sensor Networks
- Week 5 Lecture Material
- Feedback for week 5
- Quiz : Assignment Week 5
- Assignment Solution Week 5

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

Week 6

Week 7

Week 8

DOWNLOAD
VIDEOS

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? **1 point**

- INTSEM
- CoRD
- OGDC
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

CoRD

6) 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

7) Which statement is false with respect to the EMACs protocol? **1 point**

- 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: **1 point**

- 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? **1 point**

- 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



10 Which is not a variant of S-MAC?

1 point

- 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)

[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

