

### NPIEL

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#### Courses » Wireless Adhoc And Sensor Networks



Announcements

Course

Ask a Question

**Progress** 

# Unit 6 - Week 5



1 point

1 point

# **Course** outline

How to access the portal

Week 1:

Week 2

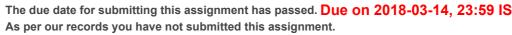
Week 3

Week 4

#### Week 5

- Lecture 21:Introducation:Wireless SensorNetworks- Part-
- Lecture 22: Introducation: Wireless Sensor Networks- Part-
- 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
- AssignmentSolution Week 5

# **Assignment Week 5**





- 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:
  - 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

quate placement of sensor flode is important to ensure

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

No, the answer is incorrect.

Score: 0

#### **Accepted Answers:**

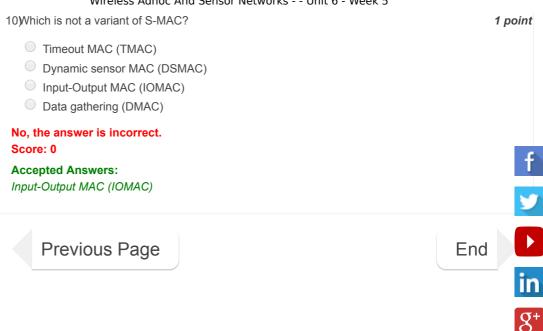
Adequate coverage

4) An example of coverage algorithm is

1 point

- CoRD
- OGDC
- OMN
- All of these

7/2020	Wireless Adnoc And Sensor Networks Unit 6 - Week 5
Week 6	No, the answer is incorrect. Score: 0
Week 7	Accepted Answers: OGDC
Week 8	5) Which of the following algorithms is known for establishing the connectivity in the presence of <i>1 point</i>
DOWNLOAD VIDEOS	dumb nodes?
	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?
	In the setup phase, clusters are created and cluster heads are determined
	The nodes join the cluster nearest to them with the strongest signal
	<ul> <li>In the steady state phase, CSMA-based solutions are used for inter-cluster communication</li> <li>In the steady state phase, TDMA-based solutions are used for inter-cluster communication</li> </ul>
	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
	<ul><li>A node may transmit either a control message or a data frame during any time slot</li><li>All of the above</li></ul>
	No, the answer is incorrect.
	Score: 0
	Accepted Answers:



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