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NPTEL

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Courses » Wireless Adhoc And Sensor Networks

Announcements **Course** Ask a Question Progress

## Unit 2 - Week 1:

### Course outline

#### How to access the portal

#### Week 1:

- Lecture 1: Introduction: Wireless Ad Hoc Networks- Part- I
- Lecture 2: Introduction: Wireless Ad Hoc Networks- Part- II
- Lecture 3: Self-organizing Behaviour of Wireless Ad Hoc Networks
- Lecture 4: Cooperation in Mobile Ad Hoc Networks- Part- I
- Lecture 5: Cooperation in Mobile Ad Hoc Networks- Part- II
- Week 1 Lecture Material
- Quiz : Assignment Week 1
- Assignment Solution Week 1

#### Week 2

#### Week 3

#### Week 4

#### Week 5

#### Week 6

## Assignment Week 1

The due date for submitting this assignment has passed. **Due on 2018-02-21, 23:59 IST**  
As per our records you have not submitted this assignment.

1) A wireless network without a centralized access point may be:

1 point

- An infrastructure network
- An ad hoc network
- All of these
- None of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*An ad hoc network*

2) Which of the following technologies enable wireless ad-hoc networking

1 point

- ZigBee
- 4G(LTE)
- All of the above
- None of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*ZigBee*

3) The self-properties of self-organization networks are known by the acronym

1 point

- Self-POT
- Self-CHOP
- Self-CHAP
- Self-COAT

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Self-CHOP*

4) The main source of power consumption in wireless sensor networks is due to

1 point

- Sensing
- Transmitting
- Processing
- None of these

Week 7

Week 8

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

5) Throughput in wireless ad hoc networks with N nodes decreases at a rate of

**1 point**

- $\sqrt{N}$
- $N^2$
- $N^3$
- $2N$

**No, the answer is incorrect.****Score: 0****Accepted Answers:** *$\sqrt{N}$* 

6) In Sprite, a selfish node may save a receipt but does not forward the message. What is the countermeasure for this selfish action?

**1 point**

- The CCS charges the sender an extra amount of credit
- The CCS gives more credit to a node that forwards a message than the node which does not
- The credit of each node is multiplied by a fraction  $r$ , where  $r < 1$
- The non-forwarding node is charged with an extra amount of credit

**No, the answer is incorrect.****Score: 0****Accepted Answers:***The CCS gives more credit to a node that forwards a message than the node which does not*

7) The nodes which are unable to perform an operation because of either power failure or environmental events are termed as

**1 point**

- Selfish node
- Failed nodes
- Dead node
- Malicious node

**No, the answer is incorrect.****Score: 0****Accepted Answers:***Failed nodes*

8) The types of reputations used in the CORE are

**1 point**

- Objective, direct, and functional
- Subjective, indirect, and functional
- Subjective, indirect, and non-functional
- Subjective, direct, and non-functional

**No, the answer is incorrect.****Score: 0****Accepted Answers:***Subjective, indirect, and functional*

9) Sprite is a system based on credit, which is used to provide \_\_\_\_\_ for mobile nodes to cooperate and report actions honestly.

**1 point**

- Penalty
- Bit coin
- Incentives
- Acknowledge

**No, the answer is incorrect.****Score: 0**

**Accepted Answers:***Incentives*10) Nodes which deliberately disrupt the correct operation of the routing protocol are known as: **1 point**

- Selfish nodes
- Failed nodes
- Badly failed nodes
- Malicious nodes

**No, the answer is incorrect.****Score: 0****Accepted Answers:***Malicious nodes*[Previous Page](#)[End](#)

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