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NPTEL

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Courses » Wireless Adhoc And Sensor Networks

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# Unit 5 - Week 4



## Course outline

How to access the portal

Week 1:

Week 2

Week 3

Week 4

- Lecture 16: Opportunistic Mobile Networks- Part-II
- Lecture 17: Opportunistic Mobile Networks- Part-III
- Lecture 18: UAV Networks- Part-I
- Lecture 19: UAV Networks- Part-II
- Lecture 20: UAV Networks- Part-III
- Week 4: Lecture Material
- Quiz : Assignment Week 4
- Assignment Solution Week 4

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## Assignment Week 4

The due date for submitting this assignment has passed. **Due on 2018-03-07, 23:59 IST**  
As per our records you have not submitted this assignment.

1) UAV-SDN aims to achieve –

1 point

- Autonomous UAV control
- Remote UAV control
- Remote control and configuration of network of UAVs
- Swarm of UAVs

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Remote control and configuration of network of UAVs*

2) What does the presence function in a time-varying graph indicate?

1 point

- Whether or not a given node was present at a given location at a given time instant
- Whether or not it belongs to the cut set
- Characterizes a node via which all communication must pass
- Whether or not a given edge was present at a given time instant

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Whether or not a given edge was present at a given time instant*

3) What does a Protocol Translation Unit do?

1 point

- Allows two different routing protocols to communicate
- Allows devices with heterogeneous MAC layers to communicate
- Provides backward compatibility to older versions of a given protocol
- Collects messages from highly mobile nodes similar to throwboxes

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Allows two different routing protocols to communicate*

4) Which is not a typical requirement for reputation/trust management schemes for OMNs, in general?

1 point

- Tamper-proof hardware
- Huge network bandwidth
- Use of cryptographic hashes
- Presence of certifying authorities

DOWNLOAD  
VIDEOS

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Huge network bandwidth*

5) OMNs are very similar to MANETs in the sense that they both lack in network infrastructure. **1 point**  
However, their primary difference is the lack of \_\_\_\_

- End-to-end communication
- Storage
- Processing power
- All of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*End-to-end communication*

6) Multi-UAV systems have preferably \_\_\_\_\_ antennas, whereas single UAV systems **1 point**  
have omni-directional antennas.

- Omni-directional
- Bi-directional
- Directional
- None of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Directional*

7) Similar to vehicular networks, which are termed VANETs, UAV networks are popularly termed **1 point**  
as:

- UANETs
- FANETs
- WINETs
- All of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*FANETs*

8) Yaw, Pitch and Roll values are determined from which sensor? **1 point**

- Accelerometer
- Gyroscope
- Magnetometer
- Barometer

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Gyroscope*

9) An UAV SDN implementation encompasses data and \_\_\_\_\_ planes of communication. **1 point**

- Process
- Resource
- Control
- Display

**No, the answer is incorrect.**

**Score: 0**



**Accepted Answers:***Control*

10) In ProPHET, the use of \_\_\_ allows to update the contact probability with a node with whom there has been no contact lately **1 point**

- Paging
- Aging
- Indexing
- Casing

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

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