

Code No: 58039

Set No. 1

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**IV B.Tech. II Sem., II Mid-Term Examinations, April-2014**

**ADHOC AND SENSOR NETWORKS**

**Objective Exam**

Name: \_\_\_\_\_ Hall Ticket No. 

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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I. Choose the correct alternative:**

1. \_\_\_\_\_ layer is the most active layer in Wireless Sensor Networks [      ]  
(a) MAC      (b) physical      (c) Routing      (d) all the above
2. There are \_\_\_\_\_ types of schemes that could allocate a single broadcast channel among competing Sensor networks. [      ]  
(a) one      (b) two      (c) three      (d) four
3. The \_\_\_\_\_ explores design trade – offs for energy conservation in the MAC Layer [      ]  
(a) Sync      (b) S-MAC      (c) SDMA      (d) TDMA
4. S-MAC protocol reduces energy consumption from the following sources \_\_\_\_\_ [      ]  
(a) collision      (b) idle listening      (c) control overhead      (d) all the above
5. The Topology of an adhoc network is \_\_\_\_\_ [      ]  
(a) fixed      (b) not fixed      (c) decidable      (d) un decidable
6. \_\_\_\_\_ stores all the public/private certificates issued by Certification Authority. [      ]  
(a) Key Distribution Center      (b) Certification Authority itself  
(c) Certification Distribution Center      (d) None
7. \_\_\_\_\_ denotes an accurate, absolute identification of a user who wish to be a part of the network. [      ]  
(a) authentication      (b) validation      (c) trusting      (d) all
8. A \_\_\_\_\_ is a secret key that is used by two or more parties to communicate securely. [      ]  
(a) public key      (b) private key      (c) group key      (d) single key
9. MICA Motes support a \_\_\_\_\_ pin I/O extension Connector [      ]  
(a) 50      (b) 51      (c) 52      (d) 53
10. \_\_\_\_\_ is the representative example for node level programming tools. [      ]  
(a) .Win XP      (b) Win NT      (c) TinyOS      (d) Win 8.1

**Cont.....2**

**II Fill in the Blanks:**

- 11 The wireless channel primarily is \_\_\_\_\_ medium.
- 12 In \_\_\_\_\_ scheme of channel allocation, there is no fixed assignment of bandwidth.
- 13 \_\_\_\_\_ is a distributed protocol which enables a collection of SNs to discover their neighbours.
- 14 Threats are broadly classified as \_\_\_\_\_
- 15 \_\_\_\_\_ ensures that the origin of a message cannot deny having sent the messages.
- 16 \_\_\_\_\_ ensures that the group key is a function of all authenticated group members.
- 17 \_\_\_\_\_ techniques requires that two or more group members contribute to the creation of group key.
- 18 In MICA, the connection between the MCU and the flash memory unit is via a \_\_\_\_\_ Protocol.
- 19 \_\_\_\_\_ aims at supporting sensor network applications on resource constrained platforms like Berkeley Motes.
- 20 The execution of an Interrupt Handler is called an \_\_\_\_\_

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Set No. 2

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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I. Choose the correct alternative:**

1. S-MAC protocol reduces energy consumption from the following sources \_\_\_\_\_ [     ]  
(a) collision (b) idle listening (c) control overhead (d) all the above
2. The Topology of an adhoc network is \_\_\_\_\_ [     ]  
(a) fixed (b) not fixed (c) decidable (d) un decidable
3. \_\_\_\_\_ stores all the public/private certificates issued by Certification Authority. [     ]  
(a) Key Distribution Center (b) Certification Authority itself  
(c) Certification Distribution Center (d) None
4. \_\_\_\_\_ denotes an accurate, absolute identification of a user who wish to be a part of the network. [     ]  
(a) authentication (b) validation (c) trusting (d) all
5. A \_\_\_\_\_ is a secret key that is used by two or more parties to communicate securely. [     ]  
(a) public key (b) private key (c) group key (d) single key
6. MICA Motes support a \_\_\_\_\_ pin I/O extension Connector [     ]  
(a) 50 (b) 51 (c) 52 (d) 53
7. \_\_\_\_\_ is the representative example for node level programming tools. [     ]  
(a) .Win XP (b) Win NT (c) TinyOS (d) Win 8.1
8. \_\_\_\_\_ layer is the most active layer in Wireless Sensor Networks [     ]  
(a) MAC (b) physical (c) Routing (d) all the above
9. There are \_\_\_\_\_ types of schemes that could allocate a single broadcast channel among competing Sensor networks. [     ]  
a) one (b) two (c) three (d) four
10. The \_\_\_\_\_ explores design trade – offs for energy conservation in the MAC Layer [     ]  
(a) Sync (b) S-MAC (c) SDMA (d) TDMA

**Cont.....2**

**II Fill in the Blanks:**

11. Threats are broadly classified as\_\_\_\_\_
12. \_\_\_\_\_ensures that the origin of a message cannot deny having sent the messages.
13. \_\_\_\_\_ensures that the group key is a function of all authenticated group members.
14. \_\_\_\_\_techniques requires that two or more group members contribute to the creation of group key.
15. In MICA, the connection between the MCU and the flash memory unit is via a \_\_\_\_\_ Protocol.
16. \_\_\_\_\_aims at supporting sensor network applications on resource constrained platforms like Berkeley Motes.
17. The execution of an Interrupt Handler is called an \_\_\_\_\_
18. The wireless channel primarily is \_\_\_\_\_ medium.
19. In \_\_\_\_\_ scheme of channel allocation, there is no fixed assignment of bandwidth.
20. \_\_\_\_\_is a distributed protocol which enables a collection of SNs to discover their neighbours.

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Set No. 3

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

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**I. Choose the correct alternative:**

1. \_\_\_\_\_ stores all the public/private certificates issued by Certification Authority. [      ]  
(a) Key Distribution Center (b) Certification Authority itself  
(c) Certification Distribution Center (d) None
2. \_\_\_\_\_ denotes an accurate, absolute identification of a user who wish to be a part of the network. [      ]  
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3. A \_\_\_\_\_ is a secret key that is used by two or more parties to communicate securely. [      ]  
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(a) MAC (b) physical (c) Routing (d) all the above
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(a) Sync (b) S-MAC (c) SDMA (d) TDMA
9. S-MAC protocol reduces energy consumption from the following sources \_\_\_\_\_ [      ]  
(a) collision (b) idle listening (c) control overhead (d) all the above
10. The Topology of an adhoc network is \_\_\_\_\_ [      ]  
(a) fixed (b) not fixed (c) decidable (d) un decidable

**Cont.....2**

**II Fill in the Blanks:**

11. \_\_\_\_\_ ensures that the group key is a function of all authenticated group members.
12. \_\_\_\_\_ techniques requires that two or more group members contribute to the creation of group key.
13. In MICA, the connection between the MCU and the flash memory unit is via a \_\_\_\_\_ Protocol.
14. \_\_\_\_\_ aims at supporting sensor network applications on resource constrained platforms like Berkeley Motes.
15. The execution of an Interrupt Handler is called an \_\_\_\_\_
16. The wireless channel primarily is \_\_\_\_\_ medium.
17. In \_\_\_\_\_ scheme of channel allocation, there is no fixed assignment of bandwidth.
18. \_\_\_\_\_ is a distributed protocol which enables a collection of SNs to discover their neighbours.
19. Threats are broadly classified as \_\_\_\_\_
20. \_\_\_\_\_ ensures that the origin of a message cannot deny having sent the messages.

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Set No. 4

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(a) public key      (b) private key      (c) group key      (d) single key
2. MICA Motes support a \_\_\_\_\_ pin I/O extension Connector [      ]  
(a) 50      (b) 51      (c) 52      (d) 53
3. \_\_\_\_\_ is the representative example for node level programming tools. [      ]  
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4. \_\_\_\_\_ layer is the most active layer in Wireless Sensor Networks [      ]  
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5. There are \_\_\_\_\_ types of schemes that could allocate a single broadcast channel among competing Sensor networks. [      ]  
(a) one      (b) two      (c) three      (d) four
6. The \_\_\_\_\_ explores design trade – offs for energy conservation in the MAC Layer [      ]  
(a) Sync      (b) S-MAC      (c) SDMA      (d) TDMA
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(a) authentication      (b) validation      (c) trusting      (d) all

**Cont.....2**

**II Fill in the Blanks:**

11. In MICA, the connection between the MCU and the flash memory unit is via a \_\_\_\_\_ Protocol.
12. \_\_\_\_\_ aims at supporting sensor network applications on resource constrained platforms like Berkeley Motes.
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