CSC668 MIDTERM

NAME STUDENT ID

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1. Explain how the key management works in four way handshake using EAP. (12)

2. 2 bytes are encrypted using the exact same 8bit RC4 sequence and generated C1) 1111 0011 and C2) 1111 1001. The bytes are non capitalised vowels

   'a':61(Hex) 'e':65, 'i':69, 'o':6F 'u':75. Identify them? Find the 8 bit key? (12)

3. Why is WEP not considered as a good security solution for WLANs and what are the main improvements of more recent standards (namely 802.11X and 802.11i)? (12)

4. estimate the amount of time it would take to crack a DES encryption by testing all possibilities? If you have a 1GHZ processor, could you estimate the amount of time it would take to crack a DES encryption by testing all 2^56 possibilities? (14)

Assuming:

2^56 keys

200 cycles to go through each iteration

1 Ghz Machine

Completion

Complete each statement.

6. A(n) _____ site has all the equipment needed for an organization to continue running, including office space and furniture, telephone jacks, computer equipment, and a live telecommunications link.

7. The term _____ is frequently used to describe the tasks of guarding information that is in a digital format. (5)

8. A(n) _____ acts as the central base station for the wireless network. (5)

9. A wireless device is set to look for beacon frames from the AP. This is known as _____. (5)

10. In WEP, RC4 uses a(n) _____ to create the keystream. (5)

Matching (25 total)

Match each item with an statement below:

a.	Security	f.	The FCC
b.	Distributed attacks	g.	Unregulated bands
c.	Firewalls	h.	IEEE 802.11n
d.	IEEE	i.	AreTec
e.	IEEE 802.11u		

____ 11. restrict specific types of malware from entering a network. (4)

____ 12. greatest disadvantage to wireless LANs. (4)

____ 13. standards for how WLANs connect to external networks such as the Internet or cellular networks. (4)

____ 14. the world's largest technical professional society with members around the globe. (4)

____ 15. bands of the radio spectrum that are available nationwide to all users, without requiring a license. (3)

____ 16. factor that makes security increasingly difficult. (3)

____ 17. organization that promotes standardization in wireless technologies. (3)