

DT02YA

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Examination of Network Security and Management, AV 2014

Time: 2014-04-25

Total: 100

A: 90

B: 80

C: 70

D: 60

E: 50

Fail < 50

The use of dictionaries is permitted.

Good Luck

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1. (20 p)
 - List out 5 security mechanisms
 - What kind of security attacks each security mechanism can protect?
2. (20 p) Give two methods to encryption for online video displaying using a symmetric 128 bit block cipher encryption. Compare these two methods. Find a better one.
3. (20 p) What are the properties a digital signature should have? Suppose Alice, Bob and Code do not share any secret keys. They have each other's public key. How could Alice sign one message M and send it confidentially to both Bob and Code at same time by using a hash function MD5?
4. (20 p) Suppose that Alice has Code's public key K_c and Bob has Code's public key. Both Alice and Bob trust a Code. Describe a method that can create a temporary efficient secure channel between Bob and Alice.
5. (20 p) Briefly describe the methodology that using password to identifying client in Kerberos login process. How to protect client passwords?