

In Monoalphabetic Ciphers, if we use Multiplicative cipher with $K=5$ to encrypt the LAST letter in the word "CORONA", the result will be

T ☐

Y ☐

A ☐

O ☐

In Monoalphabetic Ciphers, if we use Multiplicative cipher with $K=5$ to encrypt the LAST letter in the word "CORONA", the result will be

T ☐

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الوقت المتبقي: 1 ساعة, 32 دقائق, 46 ثانية (توان).

حالة إكمال الأسئلة:

يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

السؤال 5

Information security management are responsible for reviewing the physical security controls implemented by general management and information technology management but not responsible for risk assessments

True ☐

False ☒

يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

⚠️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

السؤال 1

One of the criteria for choosing biometrics means that every person using a system should own the trait, this is called

Uniqueness ☐

Permanence ☐

Universality ☒

Performance ☐

⚠️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

⚠️ ⏪ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

السؤال 6

The first line of defense is perimeter control at the site location to prevent unauthorized access to the facility is called

Identification cards and badges ☐

Security guards ☐

Walls and fencing and gates ☒

all are correct ☐

⚠️ ⏪ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

⚠️ ⏪ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

السؤال 7

Develop a large dictionary of possible passwords and try each against the password file

Dictionary attacks ☐

Password crackers ☒

Rainbow table attacks ☐

Man in the middle attack ☐

⚠️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

السؤال 8

In cyberterrorism, Internet can be used for information warfare by using..... instead of missiles to bomb enemy's crucial information technology infrastructure

Information ☐

Networks ☐

Internet ☐

Computers ☒

⚠️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.



⚠️ ⏪ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

السؤال 19

In exhaustive-key-search attack

- Attackers benefit from the patterns created in ciphertext ☐
- Attackers benefit from statistical characteristics of language ☐
- Attackers try to use all possible keys until the plaintext make sense ☒
- All of the above ☐

⚠️ ⏪ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.



⚠️ ⏪ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

السؤال 20

Most hackers are amateurs with modest computer and net skills, though, they are dangerous since they

use automated attack programs ☒

use traditional programs ☐

use business programs ☐

use secured programs ☐



⚠️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

السؤال 12

In Monoalphabitical Ciphers, The relationship between a character in plaintext to character in ciphertext is

many-to-many ☐

one-to-one ☒

one-to-many ☐

many-to-one ☐



⚠️ ⏪ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

السؤال 16

Computer systems security requires protection of both logical and physical assets

True ☒

False ☐



⚠️ ⏪ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.



⚠️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

السؤال 28

The hash function creates a fixed-size digest from a variable-length message and Two messages will

Create the same digest ☐

Not create the same digest ☒

create multiple number of the same digest ☐

None of the above ☐

⚠️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.



⚠️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

السؤال 25

A secrete entry point into a program that allows gain access without going through the usual security access procedure called

Logic bombs ☐

Trojan horses ☐

Trapdoors ☒

Viruses ☐

⚠️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.



⚠️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

السؤال 30

In Monoalphabetic Ciphers, if we use Multiplicative cipher with $K = 4$ to encrypt the SECOND letter in the word "CORONA", the result will be

N ☐

A ☐

S ☐

E ☐

⚠️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.



⚠️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

سؤال 2

In **Monoalphabetic Ciphers**, if we use Multiplicative cipher with $K=5$ to encrypt the Third letter in the word "CORONA", the result will be

H ☐

Z ☐

R ☐

X ☐

⚠️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.



اكتب هنا للبحث

⚠️ ⏪ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

السؤال 20

In brute force attack

Attackers benefit from the patterns created in ciphertext ☐

Attackers benefit from statistical characteristics of language ☐

A and B are both correct ☐

None of the above ☒

⚠️ ⏪ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

⚠️ ⬅️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.

السؤال 37

The process of presenting an identifier to the security system is the step

- authentication ☐
- verification ☐
- identification ☐
- clarification ☐

⚠️ ⬅️ يمنع الانتقال إلى السؤال التالي إجراء تغييرات على هذه الإجابة.



Difference between proxy and firewall

The proxy is same as firewall ☐

The proxy maybe software or hardware solution ☐

The proxy is only a software solution ☒

None of the above ☐

.It is used in government, military, and financial environments, where higher security is required

Discretionary access control ☐

Role-based access control ☐

Mandatory access control ☒

Attribute-based access control ☐

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Discretionary access control ☐

Role-based access control ☐

Mandatory access control ☒

Attribute-based access control ☐

One of the criteria for choosing biometrics means that every person using a system should own the trait, this is called

Uniqueness ☐

Permanence ☐

Universality ☒

Performance ☐

.Mobile systems are installed in vehicles that perform the function of a structure, but at a fixed location

True ☐

False ☒

Facilities are those technical and human services that support the operation of the system are called

Supporting facility ☒

Operating location ☐

Physical facility ☐

Access control ☐

In Password selection strategies, users are provided with guidelines for selecting passwords which is called

Proactive password checking ☐

User Education ☒

Computer-generated passwords ☐

Reactive password checking ☐

- In Asymmetric method, receiver of the cipher text decrypt the message by
- ☒ sender public key
 - ☐ receiver private key
 - ☐ sender private key
 - ☐ receiver public key

In Polyalphabetic Ciphers, The relationship between a character in plaintext to character in ciphertext is

one-to-many ☒

many-to-many ☐

one-to-one ☐

many-to-one ☐

It refers to the audit logs and tracking user activity

Authentication ☐

Authorization ☐

Identification ☐

Accountability ☒

In Monoalphabetic Ciphers, if we use Multiplicative cipher with $K = (4)$ to encrypt the FIRST letter in the word "CORONA", the result will be

I ☒

S ☐

X ☐

Z ☐

locks can be integrated into alarm systems and sensors to create various combinations of locking behavior are called

Manual locks ☐

Programmable locks ☐

Electronic locks ☒

Biometric locks ☐

The process of access control procedure can be ordered as following

Identification - Authentication - Authorization - Accountability ☒

Authentication - Identification - Authorization - Accountability ☐

Accountability - Authentication - Authorization - Identification ☐

Authorization - Authentication - Identification - Accountability ☐

.A program that hides inside another program or disguises itself as a legitimate program

Trojan ☒

Hoax ☐

Virus ☐

Worm ☐

.In the Playfair Cipher, if the two letters are located in the same row, the cipher is the next letter to thein the same row

Down ☐

Up ☐

Left ☐

Right ☒

One of the criteria for choosing biometrics means that the trait should be different for individuals in relevant population so that they can be distinguished from one another, this is called

Uniqueness ☒

Permanence ☐

Universality ☐

Performance ☐

In brute force attack

Attackers benefit from the patterns created in ciphertext ☐

Attackers benefit from statistical characteristics of language ☐

A and B are both correct ☐

None of the above ☒

.To check the integrity, we run the..... again and compare the new digest with the previous one

Hash function ☒

Digital signature ☐

Intrusion detection ☐

None of the above ☐

.This part shows how a virus spreads by modifying other code to contain a copy of the virus

Infection Mechanism ☐

Trigger ☐

Payload ☐

None of the mentioned ☒

.In the Playfair Cipher, if the two letters are located in the same column, the cipher is the next letter to the in the same column

Down ☐

Up ☐

Left ☐

Right ☒

.A can not run independently, it requires a host program to run and activate them

Worm ☐

Virus ☐

Logic Bomb ☐

All the mentioned a, b and c ☒

It is a mean of authenticating user identity which is based on something the individual possesses

Voice pattern, handwriting ☐

Fingerprint, retina, face ☐

Smartcard, electronic keycard, physical key ☐

Password, PIN, answers to prearranged questions ☒

Honeypots is a relatively recent revolution in

Proxy systems ☐

firewall systems ☐

Intrusion detection systems ☒

All of the above ☐

.A proxy server can secure or block the host from users accessing the site from the Internet

True ☒

False ☐

.Physical security protects physical resources as people, hardware, but not data transmission

True ☐

False ☒

Examples of physical security threats is showing the system to war gases

True



False



QUESTION 2: answer the following questions

[10 marks]

A. List three of access control model (3 marks)

Answer:

1. Discretionary access control
2. Mandatory
3. Role-based

B. List three disadvantages (عيوب) of firewall: (3marks)

Answer:

1. Firewall represents a single point of failure
2. degrades network performance due to the time encryption/decryption takes
3. Firewall is a single point of failure

C. List four Approches of storing password file : (4 marks)

Answer:

1. Clear password
2. Hashed
3. Salted
4. Combined password

End of the exam, All the best, Dr. Mohammed AlZain

Final Term Exam, Fall 2021, 42/43

computer system security

8- In Monoalphabetic Ciphers, if we use Multiplicative cipher with $K= (4)$ to encrypt the FIRST letter in the word "CORONA", the result will be

- a-D
- b-S
- c-X
- d-Z

A

9- In Monoalphabetic Ciphers, if we use Multiplicative cipher with $K= (4)$ to encrypt the SECOND letter in the word "CORONA", the result will be

- a-N
- b-A
- c-S
- d-E

10- In Monoalphabetic Ciphers, if we use Multiplicative cipher with $K= (5)$ to encrypt the Third letter in the word "CORONA", the result will be

- a-H
- b-Z
- c-R
- d-X

11- In Monoalphabetic Ciphers, if we use Multiplicative cipher with $K= (5)$ to encrypt the LAST letter in the word "CORONA", the result will be

- a-T
- b-Y
- c-A
- d-O

12- One of the criteria for choosing biometrics means that every person using a system the trait, this is called

- a-Uniqueness
- b-Permanence
- c-Universality
- d-Performance

13- In the Playfair Cipher, if the two letters are located in the same row, the cipher is the next to thein the same row.

- a-Down
- b-Up
- c-Left
- d-Right

3 D

14- In Asymmetric method, receiver of the cipher text decrypt the message by

- a-sender public key
- b-receiver private key
- c-sender private key
- d-receiver public key

A

monoalphabetic Ciphers, if we use Multiplicative cipher with $K = (4)$ to encrypt the FIRST letter in the word "CORONA", the result will be

In Monoalphabetic Ciphers, if we use Multiplicative cipher with $K = (4)$ to encrypt the FIRST letter in the word "CORONA", the result will be

N

A

S

E

0- In Monoalphabetic Ciphers, if we use Multiplicative cipher with $K = (4)$ to encrypt the FIRST letter in the word "CORONA", the result will be

H

Z

R

X

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T

Y

A

O

12- One of the criteria for choosing a cipher is the trait, this is called

- a- Uniqueness
- b- Permanence
- c- Universality
- d- Performance

part shows how a virus spreads by modifying other code to contain a copy of the virus.

Infection Mechanism

Trigger

Payload

None of the mentioned

Put all your Answers here in the table

Statement number	Correct choice	Statement number	Correct choice	Statement number	Correct choice
1	C	11	C	21	B
2	C	12	C	22	A
3	C	13	D	23	B
4	a	14	a	24	A
5	a	15	D	25	B
6	a	16	D	26	D
7	C	17	B	27	A
8	a	18	A	28	B
9	D	19	D	29	D
10	A	20	A	30	D