# Cybersecurity Essentials English 0221 cga

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| **Started on** | Monday, 8 March 2021, 2:08 PM |
| **State** | Finished |
| **Completed on** | Monday, 8 March 2021, 2:23 PM |
| **Time taken** | 14 mins 17 secs |
| **Marks** | 38.00/40.00 |
| **Grade** | **95.00** out of 100.00 |

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**Question 1**
Correct
Mark 2.00 out of 2.00
⚑ Flag question

What are the three states of data? (Choose three.)

Select one or more:

- ☑ at rest ✔
- ☐ in-cloud
- ☐ suspended
- ☑ in-process ✔
- ☑ in-transit ✔
- ☐ encrypted

Refer to curriculum topic: 2.3.1
The protection of the cyber world requires cybersecurity professionals to account for the safeguarding of data in-transit, in-cloud, and at rest.

The correct answers are: at rest, in-transit, in-process

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**Question 2**
Correct
Mark 2.00 out of 2.00
⚑ Flag question

What service determines which resources a user can access along with the operations that a user can perform?

Select one:

- ○ authentication
- ○ biometric
- ◉ authorization ✔
- ○ token
- ○ accounting

Refer to curriculum topic: 2.2.1
Authorization determines whether a user has certain access privileges.

The correct answer is: authorization

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**Question 3**
Correct
Mark 2.00 out of 2.00
⚑ Flag question

Which two methods help to ensure data integrity? (Choose two.)

Select one or more:

- ☑ data consistency checks ✔
- ☑ hashing ✔
- ☐ authorization
- ☐ repudiation
- ☐ availability
- ☐ privacy

Refer to curriculum topic: 2.2.2
Data integrity systems  include one of the two data integrity methods.

The correct answers are: hashing, data consistency checks

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**Question 4**
Correct
Mark 2.00 out of 2.00
⚑ Flag question

What three tasks are accomplished by a comprehensive security policy? (Choose three.)

Select one or more:

- ☐ is not legally binding
- ☑ gives security staff the backing of management ✔
- ☑ defines legal consequences of violations ✔
- ☑ sets rules for expected behavior ✔

☐ vagueness

☐ useful for management

Policy sets the establishment of rules and guidelines for the business.

The correct answers are: sets rules for expected behavior, defines legal consequences of violations, gives security staff the backing of management

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**Question 5**

Correct

Mark 2.00 out of 2.00

⚑ Flag question

For the purpose of authentication, what three methods are used to verify identity? (Choose three.)

Select one or more:

☐ where you are

☐ something you do

☑ something you have ✔

☑ something you know ✔

☑ something you are ✔

The forms of authentication are something you know, have, or are.

The correct answers are: something you know, something you have, something you are

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**Question 6**

Correct

Mark 2.00 out of 2.00

⚑ Flag question

What are the three foundational principles of the cybersecurity domain? (Choose three.)

Select one or more:

☑ integrity ✔

☑ availability ✔

☐ encryption

☐ security

☐ policy

☑ confidentiality ✔

Three foundational security principles are confidentiality, integrity and availability.

The correct answers are: confidentiality, integrity, availability

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**Question 7**

Correct

Mark 2.00 out of 2.00

⚑ Flag question

What name is given to a storage device connected to a network?

Select one:

⦿ NAS ✔

○ DAS

○ Cloud

○ RAID

○ SAN

NAS refers to a storage device connected to a network that allows storage and retrieval of data from a centralized location by authorized network users.

The correct answer is: NAS

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**Question 8**

Incorrect

Mark 0.00 out of 2.00

⚑ Flag question

What two methods help to ensure system availability? (Choose two.)

Select one or more:

☐ system resiliency

☑ system backups ✖

☑ equipment maintenance ✔

☐ up-to-date operating systems

☐ integrity checking

☐ fire extinguishers

The correct answers are: equipment maintenance, up-to-date operating systems

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**Question 9**

What are two common hash functions? (Choose two.)

Correct

Mark 2.00 out of 2.00

⚑ Flag question

Select one or more:
- ☐ RC4
- ☑ SHA ✔
- ☐ RSA
- ☐ Blowfish
- ☑ MD5 ✔
- ☐ ECC

Refer to curriculum topic: 2.2.2
SHA and MD5 use use complex mathematical algorithms to compute hash values.

The correct answers are: SHA, MD5

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**Question 10**

Correct

Mark 2.00 out of 2.00

⚑ Flag question

What are two methods that ensure confidentiality? (Choose two.)

Select one or more:
- ☑ encryption ✔
- ☐ availability
- ☐ integrity
- ☐ nonrepudiation
- ☑ authentication ✔
- ☐ authorization

Refer to curriculum topic: 2.2.1
Confidentiality means viewing of information only for those who need to know. This can be accomplished by encrypting data and authenticating users who request access.

The correct answers are: encryption, authentication

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**Question 11**

Correct

Mark 2.00 out of 2.00

⚑ Flag question

What name is given to any changes to the original data such as users manually modifying data, programs processing and changing data, and equipment failures?

Select one:
- ○ dissemination
- ○ corruption
- ◉ modification ✔
- ○ integrity
- ○ backup
- ○ deletion

Refer to curriculum topic: 2.3.3
Modification involves changes to the original data and not complete deletion of the data.

The correct answer is: modification

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**Question 12**

Correct

Mark 2.00 out of 2.00

⚑ Flag question

What type of cybersecurity laws protect you from an organization that might want to share your sensitive data?

Select one:
- ○ confidentiality
- ○ authentication
- ◉ privacy ✔
- ○ integrity
- ○ nonrepudiation

Refer to curriculum topic: 2.2.1
Privacy laws control appropriate use of data and access to data.

The correct answer is: privacy

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**Question 13**

Correct

Mark 2.00 out of 2.00

⚑ Flag question

What are three types of sensitive information? (Choose three.)

Select one or more:
- ☐ declassified
- ☐ public
- ☑ PII ✔
- ☐ published
- ☑ business ✔

☑ business ✔
☑ classified ✔

Refer to curriculum topic: 2.2.1
Sensitive information is information that would otherwise cause harm to a company or individual if publicly disclosed.
The correct answers are: PII, business, classified

## Question 14
Correct
Mark 2.00 out of 2.00
⚑ Flag question

What is a method of sending information from one device to another using removable media?

Select one:
- ○ infrared
- ○ LAN
- ○ sneaker net ✔
- ○ packet
- ○ wired
- ○ wireless

Refer to curriculum topic: 2.3.2
Sneaker net refers to hand delivering the removable data.

The correct answer is: sneaker net

## Question 15
Correct
Mark 2.00 out of 2.00
⚑ Flag question

What are three access control security services? (Choose three.)

Select one or more:
- ☑ authorization ✔
- ☐ repudiation
- ☐ availability
- ☐ access
- ☑ accounting ✔
- ☑ authentication ✔

Refer to curriculum topic: 2.2.1
This question refers to AAA authentication, authorization, and accountability.

The correct answers are: authentication, authorization, accounting

## Question 16
Correct
Mark 2.00 out of 2.00
⚑ Flag question

What is identified by the first dimension of the cybersecurity cube?

Select one:
- ○ tools
- ○ rules
- ○ safeguards
- ○ goals ✔
- ○ knowledge

Refer to curriculum topic: 2.1.1
The first dimension of the cybersecurity sorcery cube identifies the goals or security principles required to protect the cyber world.

The correct answer is: goals

## Question 17
Correct
Mark 2.00 out of 2.00
⚑ Flag question

What mechanism can organizations use to prevent accidental changes by authorized users?

Select one:
- ○ hashing
- ○ SHA-1
- ○ version control ✔
- ○ backups
- ○ encryption

Refer to curriculum topic: 2.2.2
Version control ensures that two users cannot update the same object.

The correct answer is: version control

## Question 18
What three design principles help to ensure high availability? (Choose three.)

What three design principles help to ensure high availability? (Choose three.)

Select one or more:
- ☐ use encryption
- ☑ detect failures as they occur ✔
- ☐ ensure confidentiality
- ☑ eliminate single points of failure ✔
- ☑ provide for reliable crossover ✔
- ☐ check for data consistency

Refer to curriculum topic: 2.2.3
High availability systems typically include these three design principles.

The correct answers are: detect failures as they occur, provide for reliable crossover, eliminate single points of failure

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Question **19**

Correct

Mark 2.00 out of 2.00

⚐ Flag question

What principle prevents the disclosure of information to unauthorized people, resources, and processes?

Select one:
- ○ nonrepudiation
- ○ confidentiality ✔
- ○ availability
- ○ accounting
- ○ integrity

Refer to curriculum topic: 2.2.1
The security principle of confidentiality refers to the prevention of the disclosure of information to unauthorized people, resources, and processes.

The correct answer is: confidentiality

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Question **20**

Correct

Mark 2.00 out of 2.00

⚐ Flag question

What is a secure virtual network called that uses the public network?

Select one:
- ○ IDS
- ○ Firewall
- ○ MPLS
- ○ IPS
- ○ NAC
- ○ VPN ✔

Refer to curriculum topic: 2.4.1
The term VPN describes a virtual network that uses encryption to protect data when traveling across Internet media.

The correct answer is: VPN

Finish review