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dharmendrakumar41309@gmail.com ⌄

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Cyber Security and Privacy (course)

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Week 10: Assignment 10

The due date for submitting this assignment has passed.
                                   Due on 2024-10-02, 23:59 IST.

Assignment submitted on 2024-09-25, 23:34 IST

1) Privacy Paradox is: **1 point**

   ◉ The discrepancy between the expressed concern and the actual behavior of users when it comes to privacy in an online environment.

   ○ The balance between privacy protection and data sharing in online environments.

   ○ The phenomenon where individuals prioritize convenience over privacy

   ○ The psychological phenomenon where individuals are unaware of the impact of their online behavior on their privacy

   Yes, the answer is correct.
   Score: 1

   Accepted Answers:
   The discrepancy between the expressed concern and the actual behavior of users when it comes to privacy in an online environment.

2) Which of the following is not an approach to pseudonymization?   **1 point**

   ○ Masking

   ○ Tokenization

   ○ Hashing

   ◉ None of the above

   Yes, the answer is correct.
   Score: 1

   Accepted Answers:
   None of the above

3) Which of the statements about pseudonymization is not true?   *1 point*

○ Pseudonymization is a technique proposed by frameworks like Privacy by Design offering practical substitutes for using the raw data, especially when this data is sensitive.

○ Various pseudonymization techniques enable you to preserve format or understand the original intention for that data

○ Pseudonymization methods often maintain the capability to establish connections between data, which proves beneficial when linking datasets using personal identifiers or other sensitive columns.

◉ None of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
None of the above

4) Externalization of restricted, but accurate information to a specific entity is known   *1 point*
as:

○ Anonymity

○ Secrecy

◉ Confidentiality

○ Security

Yes, the answer is correct.
Score: 1
Accepted Answers:
Confidentiality

5) Differential privacy is: *1 point*

○ A method of probabilistically limiting the amount of information an attacker can gain when data is released.

○ A method for measuring and monitoring the loss of privacy experienced by an individual in a dataset that has been released.

○ One of the most effective methods for providing individuals in a dataset with plausible deniability while still performing data analysis

◉ All the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
All the above

6) Which regulatory framework evolved into the General Data Protection Regulation   *1 point*
(GDPR) in 2018?

○ FTC privacy principles

○ APEC privacy framework

○ OECD Guidelines

◉ EU Data Protection Directive

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Yes, the answer is correct.
Score: 1

Accepted Answers:
EU Data Protection Directive

7) In the context of privacy, what does the acronym "FIPP" stand for?   **1 point**

○ Freedom of Information Processing Practices

◉ Fair Information Practice Principles

○ Federal Internet Privacy Protections

○ Financial Information Protection Protocols

Yes, the answer is correct.
Score: 1

Accepted Answers:
Fair Information Practice Principles

8) Which of the following statements is true?   **1 point**

○ Quasi Identifiers are more valuable for targeted advertising than Identifiers

○ Identifiers are always anonymized, whereas Quasi-Identifiers are non-anonymized.

○ Identifiers are not considered personal data whereas Quasi Identifiers are.

◉ Identifiers can uniquely identify an individual, while quasi-identifiers cannot on their own.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Identifiers can uniquely identify an individual, while quasi-identifiers cannot on their own.

9) What are the two techniques used in k-anonymization?   **1 point**

○ Randomization and suppression

○ Generalization and encryption

◉ Suppression and generalization

○ Suppression and encryption

Yes, the answer is correct.
Score: 1

Accepted Answers:
Suppression and generalization

10) What does the optimal point on an R-U map represent?   **1 point**

○ Complete elimination of all data privacy risks,by fully anonymizing all data

○ Utilizing all PIIs data, extracting full value without privacy concerns

◉ Maximizing data usefulness while maintaining acceptable privacy risks.

○ None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
Maximizing data usefulness while maintaining acceptable privacy risks.