

NPTEL Cyber security and privacy 2100031921

The screenshot shows the NPTEL Cyber Security and Privacy course interface for Week 1: Assignment 1. The page is titled "Week 1: Assignment 1" and indicates that the due date for submitting this assignment has passed, with a due date of 2023-08-09, 23:59 IST. The assignment was submitted on 2023-08-08, 20:27 IST. The course outline on the left lists the following items: Introduction - Part 1, Introduction - Part 2, Introduction - Part 3, Quiz: Week 1: Assignment 1, Lecture Material - Week 1, Week 1 Feedback Form: Cyber Security and Privacy, Week 1: Solution, Week 2, and Week 3. The assignment questions are as follows: 1) Security is a state or quality of being secure to be free from..... (1 point). The user selected "Threat", but the correct answer is "Danger". 2) Which term among the following is correct? (1 point). The user selected "Cybersecurity", but the correct answer is "Cyber security". The interface also includes a navigation bar with links to Announcements, About the Course, Ask a Question, Progress, Mentor, and Review Assignment. The bottom of the page shows a Windows taskbar with the date 07-10-2023 and time 08:40.

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Course outline

How does an NPTEL online course work?

Week 1

- Introduction - Part 1
- Introduction - Part 2
- Introduction - Part 3
- Quiz: Week 1: Assignment 1
- Lecture Material - Week 1
- Week 1 Feedback Form: Cyber Security and Privacy
- Week 1: Solution

Week 2

Week 3

Week 1: Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-08-09, 23:59 IST.

Assignment submitted on 2023-08-08, 20:27 IST

1) Security is a state or quality of being secure to be free from..... 1 point

☐ Vulnerability

☒ Threat

☐ Attack

☐ Danger

No, the answer is incorrect.

Score: 0

Accepted Answers: Danger

2) Which term among the following is correct? 1 point

☒ Cybersecurity

☐ Cyber-security

☐ Cyber security

☐ All are correct

No, the answer is incorrect.

Score: 0

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08:40 07-10-2023

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Course outline

How does an NPTEL online course work?

Week 1

- Foundation - Part 1
- Foundation - Part 2
- Foundation - Part 3
- Lecture Material - Week 2
- Quiz: Week 2: Assignment 2
- Week 2 Feedback Form: Cyber Security and Privacy
- Week 2: Solution

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Week 2: Assignment 2

The due date for submitting this assignment has passed.

Due on 2023-08-09, 23:59 IST.

Assignment submitted on 2023-08-08, 20:43 IST

1) What term describes the quality or state of ownership or control of information? 1 point

☐ confidentiality

☒ possession

☐ authenticity

☐ integrity

Yes, the answer is correct.

Score: 1

Accepted Answers: possession

2) Fill in the blanks. The McCumber Cube has _____ dimensions with _____ cells representing areas that must be addressed to secure today's information systems. 1 point

☐ 7 and 21

☐ 4 and 27

☐ 3 and 18

☒ 3 and 27

Yes, the answer is correct.

Score: 1

Accepted Answers: 3 and 27

3) _____ is a weakness or fault in a system or protection mechanism that opens it to attack or damage. 1 point

☐ Threat

☒ Vulnerability

☐ Risk

☐ Attack

Yes, the answer is correct.

Score: 1

Accepted Answers: Vulnerability

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Course outline

How does an NPTEL online course work?

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Week 3

Security management, GRC - Part 01

Security management, GRC - Part 02

Security management, GRC - Part 03

Lecture Material - Week 3

Quiz: Week 3: Assignment 3

Week 3 Feedback Form: Cyber Security and Privacy

Week 3: Solution

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Week 3: Assignment 3

The due date for submitting this assignment has passed.

Due on 2023-08-16, 23:59 IST.

Assignment submitted on 2023-08-16, 20:53 IST

1) Which of the following terms best describe the specification of a model to be followed during the design, selection, and initial and ongoing implementation of all subsequent security controls? 1 point

☐ Blueprint

☒ NIST handbook

☐ An information security framework

☐ Security plan

Yes, the answer is correct.

Score: 1

Accepted Answers: An information security framework

2) True or False: SP 800-18, Guide for Developing Security Plans, is considered the foundation for a comprehensive security blueprint and framework. 1 point

☒ True

☐ False

Yes, the answer is correct.

Score: 1

Accepted Answers: True

3) One of the foundations of security architectures is the requirement to implement security in layers. This layered approach is referred to as: 1 point

☐ managerial controls

☐ security domain

☒ redundancy

☐ defense in depth

Yes, the answer is correct.

Score: 1

Accepted Answers: defense in depth

4) Control Objectives for Information and Related Technologies is a framework created by ----- for information technology (IT) management and ----- 1 point

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How does an NPTEL online course work?

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Contingency planning - Part 01

Contingency planning - Part 02

Contingency planning - Part 03

Lecture Material - Week 4

Quiz: Week 4: Assignment 4

Week 4 Feedback Form: Cyber Security and Privacy

Week 4: Solution

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Week 4: Assignment 4

The due date for submitting this assignment has passed.

Due on 2023-08-23, 23:59 IST.

Assignment submitted on 2023-08-23, 19:21 IST

1) Which term is used to describe detailed statements of what must be done to comply with policy? 1 point

☐ Policies

☒ Standards

☐ Ethics

☐ Governance

Yes, the answer is correct.

Score: 1

Accepted Answers: Standards

2) Management must use ----- as the basis for all information security planning, design, and deployment. 1 point

☐ Standards

☐ Procedures

☒ Policies

☐ Best business practices

Yes, the answer is correct.

Score: 1

Accepted Answers: Policies

3) Which type of planning ensures that critical business functions continue if a catastrophic incident or disaster occurs? 1 point

☒ Business continuity planning (BCP)

☐ Contingency planning (CP)

☐ Business resumption planning (BRP)

☐ Disaster recovery planning (DRP)

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How does an NPTEL online course work?

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Week 5

Cyber security policy - Part 01

Cyber security policy - Part 02

Cyber security policy - Part 03

Lecture Material - Week 5

Quiz: Week 5: Assignment 5

Week 5 Feedback Form: Cyber Security and Privacy

Week 5: Solution

Week 6

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Week 5: Assignment 5

The due date for submitting this assignment has passed.

Due on 2023-08-30, 23:59 IST.

Assignment submitted on 2023-08-26, 20:19 IST

1) What type of policy addresses specific areas of technology, requires frequent updates, and contains a statement on the organization's position on a specific issue?

☐ Enterprise information security policy (EISP)

☐ Systems-specific security policy (SysSP)

☐ Automated policy (AP)

☒ Issue-specific security policy (ISSP)

Yes, the answer is correct.

Score: 1

Accepted Answers: Issue-specific security policy (ISSP)

1 point

2) What are the defence strategies: three common methods?

1. Application of policy

2. Education and training

3. Business impact analysis

4. Risk management

5. Application of technology

Choose the correct answer.

☐ 1,2,3

☐ 1,2,4

☐ 2,4,5

☒ 1,2,5

Yes, the answer is correct.

Score: 1

Accepted Answers: 1,2,5

0 points

3) Policy administrator is responsible for -----

1. creation,

2. revision,

3. implementation

4. distribution, and

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Week 6

Risk Management - Part 01

Risk Management - Part 02

Risk Management - Part 03

Lecture Material - Week 6

Quiz: Week 6: Assignment 6

Week 6 Feedback Form: Cyber Security and Privacy

Week 6: Solution

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Week 6: Assignment 6

The due date for submitting this assignment has passed.

Due on 2023-09-06, 23:59 IST.

Assignment submitted on 2023-09-04, 12:43 IST

1) Match 1 & 2 with A & B following

1. Residual risk

2. Risk appetite

A. The risk to information assets that remains even after current controls have been applied.

B. The quantity and nature of risk that organizations are willing to accept as they evaluate the trade-offs between perfect security and unlimited accessibility.

Choose the correct answer:

☐ 1-A, 2-B

☐ 1-B, 2-A

Yes, the answer is correct.

Score: 1

Accepted Answers: 1-A, 2-B

1 point

2) True or False:

The information technology community of interest must assist in risk management by configuring and operating information systems in a secure fashion.

☐ True

☐ False

Yes, the answer is correct.

Score: 1

Accepted Answers: True

1 point

3) The process of examining how each threat will affect an organization is called:

☐ Risk assessment

☐ Data classification

☒ Threat assessment

☐ Vulnerability classification

Yes, the answer is correct.

Score: 1

Accepted Answers: Threat assessment



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Week 7: Assignment 7

The due date for submitting this assignment has passed.

Due on 2023-09-13, 23:59 IST.

As per our records you have not submitted this assignment.

1) Which VPN technology uses leased circuits from a service provider and conducts packet switching over these leased circuits? 1 point

- ☐ Secure VPN
- ☐ Hybrid VPN
- ☐ Trusted VPN
- ☐ Transport VPN

No, the answer is incorrect.

Score: 0

Accepted Answers:
Trusted VPN

2) The biometric technology criteria that describe the number of legitimate users who are denied access because of a failure in the biometric device in known as 1 point

- ☐ False reject rate
- ☐ False accept rate
- ☐ Crossover error rate
- ☐ False reject rate



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Cyber security technologies -
Part 01

Cyber security technologies -
Part 02

Cyber security technologies -
Part 03

Week 8: Assignment 8

The due date for submitting this assignment has passed.

Due on 2023-09-20, 23:59 IST.

Assignment submitted on 2023-09-20, 21:36 IST

1) Which of the following terms describes the process of making and using codes to secure the transmission of information? 1 point

- ☐ Algorithm
- ☒ Cryptography
- ☐ Steganography
- ☐ Cryptanalysis

Yes, the answer is correct.

Score: 1

Accepted Answers:
Cryptography

2) What is term is used to describe a cryptographic method that incorporates mathematical operations involving both a public key and a private key to encipher or decipher a message? 1 point

- ☐ Private-key encryption
- ☐ Symmetric encryption
- ☐ Advanced Encryption Standard (AES)
- ☒ Asymmetric encryption

Yes, the answer is correct.

Score: 1

Accepted Answers:
Asymmetric encryption

3) A substitution cipher that incorporates two or more alphabets in the encryption process is called 1 point

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How does an NPTEL online course work?

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Foundations of privacy - Part 01

Foundations of privacy - Part 02

Foundations of privacy - Part 03

Week 9 Feedback Form: Cyber Security and Privacy

Week 9: Assignment 9

The due date for submitting this assignment has passed.

Due on 2023-09-27, 23:59 IST.

Assignment submitted on 2023-09-26, 16:01 IST

1) What is the maximum fine for GDPR non-compliance? 1 point

☐ EUR 10mn or 2% global turnover

☐ EUR 15mn or 3% global turnover

☒ EUR 20mn or 4% global turnover

☐ EUR 25mn or 5% global turnover

Yes, the answer is correct.
Score: 1
Accepted Answers: EUR 20mn or 4% global turnover

2) Richards and Solove (2007) suggest that while the American derivation of general privacy is grounded in one's _____ 1 point

☒ invade personality

☐ violate personality

☐ serious personality

☐ funny personality

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

3) Cohenreim treats privacy as a 1 point

☐ Permission

☐ Order

☐ Freedom

☒ Distinct right

Yes, the answer is correct.

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Privacy regulation - Part 01

Privacy regulation - Part 02

Privacy regulation - Part 03

Lecture Material - Week 10

Week 10: Assignment 10

The due date for submitting this assignment has passed.

Due on 2023-10-04, 23:59 IST.

Assignment submitted on 2023-10-03, 17:33 IST

1) GDPR makes provisions for the individual member states to add their own exemptions 1 point

☒ True

☐ False

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

2) The GDPR introduces a new data protection principle that requires organizations to 1 point

☒ demonstrate compliance with the principles

☐ optional compliance with the privacy regulation

☐ flexibility to report data protection breaches

☐ accept data breaches

Yes, the answer is correct.
Score: 1
Accepted Answers: demonstrate compliance with the principles

3) In which of these circumstances could a data subject exercise their right to be forgotten? 1 point

☐ Where they have withdrawn consent for data processing

☐ Where the data is no longer necessary for the purposes for which it was collected

☐ Where erasure is necessary to comply with a legal obligation

☒ All are true

☐ All are false

Yes, the answer is correct.