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Course outline

About NPTEL ()

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 12 : Assignment 12

The due date for submitting this assignment has passed.

Due on 2025-04-16, 23:59 IST.

Assignment submitted on 2025-04-08, 16:39 IST

1) ***1 point***

How does the use of blockchain technology enhance the management of Land Registry records?

a) Blockchain eliminates the need for physical land titles by storing them in a centralized digital ledger.
b) Blockchain ensures that land records can be accessed by any government entity at any time without restrictions.
c) Blockchain prevents fraud in land transactions by providing a secure, transparent, and immutable record of ownership.
d) Blockchain allows land records to be altered instantly without the need for a verification process by authorities

- a.
- b.
- c. (selected)
- d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
c.

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

- Lecture 56 : A Potential Use Case – From a Critics Perspective (unit?unit=116&lesson=117)
- Lecture 57 : Blockchain in Financial Services (unit?unit=116&lesson=118)
- Lecture 58 : Public Sector Use Cases (unit?unit=116&lesson=119)
- Lecture 59 : Blockchain for Decentralized Marketplace (Part 1) (unit?unit=116&lesson=120)
- Lecture 60 : Blockchain for Decentralized Marketplace (Part 2) (unit?unit=116&lesson=121)
- Week 12 Lecture Material (unit?

2) ***1 point***

Which of the following is/are advantages of blockchain?

a) Provides decentralized platforms and marketplace
b) Requires intermediaries for verification
c) Limited scalability
d) Better transparency

- [x] a.
- [ ] b.
- [ ] c.
- [x] d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
a.
d.

3) ***1 point***

Which of the following is an essential feature of federated voting?

a) It requires a central authority to validate votes
b) Nodes vote independently without needing majority approval to win
c) A majority of nodes' votes determine the outcome
d) All nodes must agree unanimously for a decision to be accepted

- ( ) a.
- ( ) b.
- (•) c.
- ( ) d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
c.

4) ***1 point***

Which of the following was/were **NOT** utilized in Singapore's Project Ubin to enhance interbank settlements?

a) Distributed Ledger Technology
b) Tokenization of the Singapore Dollar (SGD) for digital representation.
c) cross-border payments
d) Proof-of-work (PoW) consensus mechanism to validate transactions

- ( ) a.
- ( ) b.
- ( ) c.

unit=116&lesson=122)

Quiz: Week 12 : Assignment 12 (assessment?name=185)

Week 12 Feedback Form (unit?unit=116&lesson=123)

Download Videoes ()

Live Interactive session ()

Text Transcription ()

d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
d.

5) ***1 point***

Which type of attack allows an attacker to create multiple fake identities to gain unauthorized access to consortium services?

a) Byzantine faults
b) Sybil attacks
c) DDoS attacks
d) Sensitive information leakage

a.

b.

c.

d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
b.

6) ***1 point***

To allocate consumer requests among Service Providers, which of the following scheduling algorithms is implemented?

a) Fair Scheduling Algorithm
b) Capacity Scheduling Algorithm
c) Dynamic Round Robin
d) A* Algorithm

a.

b.

c.

d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

7) ***1 point***

Which of the following are key advantages of Hyperledger?

a) It is open-source
b) The identities of the participants can be accessed by any outsider
c) It supports private channels
d) It is exclusively designed for public blockchain

a.

b.

c.

d.

Yes, the answer is correct.
Score: 1

Accepted Answers:

a.

c.

8) ***1 point***

Quorum, an enterprise-focused blockchain platform based on Ethereum, supports transaction management with privacy enhancements. Which type of state can Quorum handle during a transaction?

a) Only private state
b) Only public state
c) Both private and public state at the same time
d) Either private or public state for a transaction

a.

b.

c.

d.

Yes, the answer is correct.
Score: 1

Accepted Answers:

c.

9) ***1 point***

What feature of blockchain helps prevent fraud in decentralized marketplaces?

a) Central authority
b) Smart contracts
c) Manual validation
d) Third-party monitoring

a.

b.

c.

d.

Yes, the answer is correct.
Score: 1

Accepted Answers:

b.

10) ***1 point***

What does a "man-in-the-middle" attack do in a decentralized marketplace?

a) Changes in the price of goods in the marketplace
b) Intercepts and alters messages between users
c) Steals cryptocurrency directly from wallets
d) Prevents users from accessing the marketplace

- a.
- b.
- c.
- d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
b.