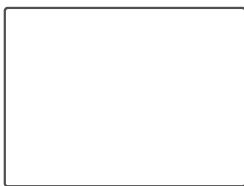


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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Blockchain and its Applications (course)

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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.
- ☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

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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)

Which of the following is/are advantages of blockchain?

1 point

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

☒ a.

☐ b.

☐ c.

☒ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

d.

3)

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

1 point

- 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)

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

1 point

- 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&less  
on=122)

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

○ Week 12  
Feedback  
Form (unit?  
unit=116&less  
on=123)

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session ()**

**Text  
Transcriptio  
n ()**

☒ 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.*