

X

NPTEL

reviewer3@nptel.iitm.ac.in ▼

Courses » Blockchain Architecture Design and Use Cases

Announcements

Course

Ask a Question

Progress

Mentor

FAQ

Unit 3 - Week 1 : Unit 1

Course outline

How to access the portal

FAQ

Week 1 : Unit 1

- Lecture 01 : Introduction to Blockchain – I (Basics)
- Lecture 02 : Introduction to Blockchain – II (History)
- Lecture 03 : Introduction to Blockchain – III (Architecture)
- Lecture 04 : Introduction to Blockchain – IV (Conceptualization)
- Lecture 05 : Basic Crypto Primitives – I
- Lecture Materials
- Quiz : Assignment 1
- Assignment1- Solution
- Week 1 -

Assignment 1

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2018-08-15, 23:59 IST.

NOTE: The question with check boxes have multiple correct answers. Select all the correct answers to get the marks

1) Which of the following are properties of Blockchain?

1 point

- ☐ Distributed Ledger
- ☐ Integrity and Safety
- ☐ Decentralized Systems
- ☐ All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

All of the above

2) A block in blockchain is pointed using:

1 point

- ☐ Hash Pointer
- ☐ User ID
- ☐ Transaction ID
- ☐ Timestamp

No, the answer is incorrect.

Score: 0

Accepted Answers:

Hash Pointer

3) The property of consistency is preserved in blockchain by maintaining -----

1 point

© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -



A project of



In association with



Funded by

Week 5	ce De	No, the answer is incorrect. Score: 0
Week 6		Accepted Answers: <i>A Local copy of the Global Information</i>
Week 7		4) Authentication codes for messages are also known as: 1 point
Week 8		<input type="radio"/> Keyed Hash Function
Week 9		<input type="radio"/> Hash Code
Week 10		<input type="radio"/> Message Hash Function
Week 11		<input type="radio"/> None of the Above
Week 12		No, the answer is incorrect. Score: 0
VIDEO DOWNLOAD		Accepted Answers: <i>Keyed Hash Function</i>
		5) Suppose the you have eight data points from 0 to 7. The in-order traversal of the Merkle Tree is given by (here 0 means hash of 0, 01 means the combined hash of 0 and 1, and so on): 1 point
		<input type="radio"/> {0,1,01,2,3,23,0123,4,5,45,6,7,67,4567,01234567} <input type="radio"/> {01234567,0123,01,0,1,23,2,3,4567,45,4,5,67,6,7} <input type="radio"/> {0,01,1,0123,2,23,3,01234567,4,45,5,4567,6,67,7} <input type="radio"/> {01234567,0123,4567,01,23,45,67,0,1,2,3,4,5,6,7}
		No, the answer is incorrect. Score: 0
	Accepted Answers: <i>{0,01,1,0123,2,23,3,01234567,4,45,5,4567,6,67,7}</i>	
	6) What are the main components of the metadata of a block in blockchain? 1 point	
	<input type="checkbox"/> Previous Block Hash <input type="checkbox"/> Transaction ID <input type="checkbox"/> Merkle Root <input type="checkbox"/> Mining Statistics	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: <i>Previous Block Hash</i> <i>Merkle Root</i> <i>Mining Statistics</i>	
	7) The current cryptographic hash algorithm used in Bitcoin is: 1 point	
	<input type="radio"/> RSA <input type="radio"/> MD5 <input type="radio"/> Double SHA128 <input type="radio"/> Double SHA256	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: <i>Double SHA256</i>	
	8) Which of the following is used to ensure consensus in Bitcoin framework? 1 point	

- ☐ PoW (Proof of Work)
- ☐ PoS (Proof of Stake)
- ☐ PoC (Proof of Concept)
- ☐ None of the Above

No, the answer is incorrect.

Score: 0

Accepted Answers:

PoW (Proof of Work)

9) How many operations are required to identify two messages with message digest in case of SHA256? **1 point**

- ☐ 2^{128}
- ☐ 2^{256}
- ☐ 2^{512}
- ☐ 2^{1024}

No, the answer is incorrect.

Score: 0

Accepted Answers:

2^{128}

10) What is the length of a message in SHA512 after padding? **1 point**

- ☐ 992
- ☐ 960
- ☐ 768
- ☐ 896

No, the answer is incorrect.

Score: 0

Accepted Answers:

896

Previous Page

End

