## Assignment 02

The due date for submitting this assignment has passed.

Score: 9/10=90%

b. No

Due on 2020-03-11, 23:59 IST.

Assignment submitted on 2020-03-11, 14:14 IST	
In public key cryptosystem based digital signature, the message digest is signed by:	1 point
sender's private key	
sender's public key	
receiver's private key	
preceiver's public key	
Yes, the answer is correct. Score: 1	
Accepted Answers: sender's private key	
2) In crypto-currency a ledger records?	1 point
list of balances	
list of transactions	
Iist of accounts	
none of the above	
Yes, the answer is correct. Score: 1	
Accepted Answers: //ist of transactions	
3) a. What defines a valid ledger?	1 point
Given a valid ledger can you generate account balances?	
a All transaction are valid	

a. All transaction are valid	
b. yes	
a. some transaction can be invalid	
b. No	
a, some transaction can be invalid	
b. yes	
Yes, the answer is correct. Score: 1	
Accepted Answers:  a. All transaction are valid	
b. yes	
Repudiation/ verifiability problem can be solved by digitally signing transaction by sender in Blockchain?	1 poin
false	
true	
Yes, the answer is correct. Score: 1	
Accepted Answers: true	
5) When will replay attack happen?	1 point
Sender Account balance after transaction is greater than or equal to the amount transferred in the transaction.	
"Change Address" is included in the transaction	
Sender Account balance after transaction is less than the amount transferred in the transaction.	
a. Yes	
b. No	
c. Yes	

a. No	
b. Yes	
c. No	
a. Yes	
b. Yes	
c. Yes	
a. Yes	
b. No	
c. No	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
a. Yes	
b. No	
c. No	
6) Fischer-Lynch-Paterson impossibility result:	1 point
consensus is impossible with even a single faulty node?	
◎ false	
● true	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
true	
7) Which of the following is/are decentralised system?	1 point
■ DNS	
☑ Bitcoin	
None of the above	

No, the answer is incorrect. Score: 0	
Accepted Answers:  Bitcoin	
8) Why consensus is hard?	1 point
■ No notion of global time	
✓ faults in network	
■ nodes may crash/ faulty nodes	
none of the above	
Yes, the answer is correct. Score: 1	
Accepted Answers: No notion of global time	
faults in network	
nodes may crash/ faulty nodes	
9) Paxos is?	1 point
Consistent	
□ Inconsistent	
✓ rarely stuck	
never stuck	
Yes, the answer is correct. Score: 1	
Accepted Answers: Consistent	
rarely stuck	
10) is Byzantine General Problem solvable for 3 nodes?	1 point
false	
● true	
Yes, the answer is correct. Score: 1	