

BLOCKCHAIN PROFESSIONAL CERTIFICATE - BCPC

Sample Exam (V092021)

- 1. Who coined the term fourth industrial revolution?
 - a. Klaus Schwab
 - b. Jeff Sutherland
 - c. Satoshifourth industrial revolution Nakamoto
 - d. Bill Gates
- 2. In the centralized ledger model:
 - a. The parties do not maintain local records of the transaction
 - b. The record and the transactions are only one truth among all the parties
 - c. There is a traditional central body that controls all the transactions and records
 - d. The intermediaries make the parties to have different transaction records
- 3. Which definition is correct?
 - a. Blockchain is a shared, non-programable, verifiable, and cryptographically safe ledger, that generates trust and cannot be controlled by any user
 - b. Blockchain is a ledger of shared transactions among the parties in a network, which is controlled in all the instances by a unique central authority
 - c. Blockchain is a distributed ledger of transactions with immutable, security, transparency, and pseudo-anonymity characteristics
 - d. In essence, Blockchain is an information digital database that resides in a unique location of internet
- 4. Which are the three following attributes of Blockchain?
 - a. Immutable, faster settlement, auditable
 - b. Faster settlement, centralized, immutable
 - c. Consensus, analytic, accurate
 - d. None of the above



5.	According to	the By	zantine Ge	enera	als Pr	oblem,	first	propos	ed b	y Mars	shall,	Robert
	Shostak and	Leslie	Lamport	in 1	982.	Block	chain	does	not	solve	the	double
	transactional spending?											

- a. True
- b. False
- 6. According to Blockchain evolution, the deployment of Dapps is part of:
 - a. Blockchain 2.0
 - b. Blockchain 1.0
 - c. Blockchain 3.0
 - d. Blockchain 4.0
- 7. In the Blockchain 2.0 the focus was on the implementation of technology in sectors such as government, health, science, culture, amongst others.
 - a. True
 - b. False
- 8. The statement: "The Blockchain 3.0 includes Bitcoin 2.0 with its corresponding protocols, as well as the entry to the Smart Contracts, Smart Property, Dapps, DAOs and DACs" is
 - a. True
 - b. False
- 9. What was Ethereum when it emerged?
 - a. An infrastructure known as strong and solid because of its scripts system and a "turing complete" platform
 - b. An infrastructure known as strong and solid because of its scripts system and a Merkle complete platform
 - c. A Blockchain infrastructure known to be strong and solid of its scripts systems and a Merkle complete platform
 - d. None of the options



- 10. Smart networks comprehend the Blockchain 3.0
 - a. True
 - b. False
- 11. A Smart Contract is not:
 - a. An executable code to allow the execution of predefined processes
 - b. A way to make agreements between parties in the network
 - c. A contract that is always legal and mandatory to be able to use Blockchain
 - d. An element that is executed on a Blockchain layer that must have terms and conditions, a subject and digital signature
- 12. Which of the followings are a category of the DApps?
 - 1. DApps manage money; 2. DApps that manage semi-financial tasks; 3. DApps that manage distributed information; 4. Dapps that manage tasks focused solely on governance
 - a. 1 and 2 are correct
 - b. 1 and 3 are correct
 - c. 2 and 4 are correct
 - d. 1 and 4 are correct
- 13. The DAOs are Smart Contracts supported by algorithm to execute decisions that require to be supplied information without a hierarchical management:
 - a. True
 - b. False
- 14. From its inception Ethereum arrived being Blockchain 4.0
 - a. True
 - b. False
- 15. Why the outputs in the Blockchain transactions add slightly more than what the inputs add up?
 - a. This is due to the error percentage of transactions performed in Blockchain
 - b. There is no difference between the outputs and inputs
 - c. This is because there is a transaction fee involved in the operation
 - d. None of the options



16. Which of the following block types is NOT one that actually exists in a Blockchain network?
a. Umer Block b.Stale Block c. Genesis Block d.Merkle Block
17. In mining, when somebody is successfully mining a block while other miners work with their own versions of similar blocks, it is understood that the first miner has blocks that are:
a. Genesis b.Merkle c. Stale d.Orphans
18. Within the information compilation part of the block header, which one has the header hash of the previous block?
a. Difficulty Objectiveb. ID from the previous blockc. Time Stamp

- 19. In which of the following elements data alteration reflects on Blockchain?
 - a. The genesis block

d. Software version

- b. The hash
- c. The Merkle tree
- d. None of the options



20. The consensus algorithms are NOT:

- a. The medium through which transparency or an error-free system is achieved
- b. Binary algorithms and their breakdown allow us to find the underlying data
- c. The mechanism through which Blockchain is a universal, permanent, continuous, auditable, repository, among other characteristics
- d. Every process performed within a distributed system by a node to reach a unique agreement of unique value for acceptable data

21. Which of the following is not a consensus type?

- a. Proof of Stake
- b. Proof of Work
- c. Proof of Activity
- d. Proof of Incinerate

22. Which is a correct statement about the PoS?

- a. 50% of ownership of all the network crypto assets is needed to add malicious blocks
- b. There is competition so that the block creator is selected by an algorithm
- c. In this consensus economic involvement is the only criterion
- d. None is correct

23. Soft forks are:

- a. Permanent
- b. They have both new and old rules
- c. Both chains maintain a similar history before the fork
- d. None of the options

24. Permissioned Blockchain is needed when:

- a. Highly efficient transactions are required, also access to reading and writing
- b. No need to control access for Reading, writing and efficient transactions
- c. It does not need to use permissioned Blockchains
- d. It needs to control data analytics



25. Which is not an adequate protocol to deploy a Blockchain project?					
a. Cloud providerb. Complexityc. Road mapd. Consensus algorithm					
26. When choosing a protocol to deploy a Blockchain Project it must be considered velocity, access, privacy, and cloud region					
a. True b. False					
27. Ethereum is a private permissioned Blockchain					
a. True b. False					
28. Which of the following enterprise Blockchain protocols is supported by IBM, Intel, SAP, CISCO, Daimler and AmEX?					
a. Hyperledger b. IOTA c. Bitcoin d. Ethereum					
29. It is optional for the enterprise Blockchains that once transactions are confirmed these cannot be reversed					
a. True b. False					
30. Data redundancy and data version duplicates for each organization is a problem that could arise from going from a data model to a model					
 a. Centralized, traditional distributed b. Centralized, decentralized c. Centralized, distributed consortium d. Decentralized, centralized 					



- 31. Blockchain as consensus systems of multiple parties as utilization represents:
 - a. A clear approach to gradually distribute control through time
 - b. A clear and gradual approach for control centralization through time
 - c. A clear and gradual approach for control decentralization through time
 - d. A clear and immediate approach for control distribution
- 32. Within the Hyperledger frameworks some of the ones that can be found are the following:
 - a. Fabric, Burrow, Indy and Iroha
 - b. Fabric, Butcher, Indy and Iroha
 - c. Fabric, Burrow, Indiana and Iroha
 - d. Fabric, Burrow, Carter and Iroha
- 33. A difference between Blockchain and DLT is that the DLT is fully distributed in terms of data visibility to all the parties
 - a. True
 - b. False
- 34. The application, network and protocol layers are attributed to:
 - a. DLT
 - b. Consensus
 - c. Smart Contract
 - d. Bitcoin
- 35. Application providers represent the entities that:
 - a. Create value for end-users through applications
 - b. Create value for initial users through applications
 - c. Create value for end-users through Smart Contracts
 - d. Create value for initial users through Smart Contracts



36. The Smart Contracts are

- a. Executable code in Blockchain or similar infrastructures that allow a transparent execution of predefined processes based on agreements among different parties without involving a trusted third-party
- b. Executable code in Blockchain or similar infrastructures that allow a transparent execution of predefined processes based on agreements among different parties involving a trusted third-party
- Executable code solely in Blockchain that allows a transparent execution of predefined processes based on agreements among different parties without involving a trusted third-party
- d. None of the options
- 37. Ethereum, Corda and Quorum use Smart Contracts
 - a. True
 - b. False
- 38. The ledger is that database where safely and immutably it will be stored that which will update the Smart Contract execution
 - a. True
 - b. False
- 39. The result of the consensus in Blockchain is a forecast performed by the IA.
 - a. True
 - b. False
- 40. The levels of value interconnection, market agreements and resources' services are those considered in an organization that is looking for implementing:
 - a. Smart Contracts
 - b. Blockchain
 - c. Artificial Intelligence
 - d. Big Data



ANSWERS

1. A
2. C
3. C
4. A
5. B
6. A
7. B
8. B
9. A
10. B
11. C
12. A
13. A
14. B
15. D
16. D
17. C
18. B
19. B
20. B

21.	D
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