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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
(An Autonomous Institute)
Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow
M.TECH
FIRST YEAR (SEMESTER-II) THEORY EXAMINATION (2020-2021)
(Objective Type)

Subject Code: AMTAI0214
Subject: Introduction to Blockchain

Max. Mks. : 40
Time : 70 Minutes

General Instructions:
All questions are compulsory.
Question No- 1 to 5 are objective type question carrying 2 marks each.
Question No- 6 to 20 are also objective type/Glossary based question carrying 2 marks each.

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Type	Difficulty	Correct	Option1	Option2	Option3	Option4
1	The digital signature algorithm used in bitcoin		Single Choice Questions	Single Choice Questions	2	Single Choice	Smart	Elliptic Curve Digital Signature Algorithm	Elliptic Curve Digital Signature Algorithm	Digital Signature Algorithm	RSA Algorithm	All of the above
2	Which of the following variable among the components of the block header is computed (or rather obtained) to achieve the difficulty posed by the blockchain network?		Single Choice Questions	Single Choice Questions	2	Single Choice	Brilliant	Nonce	Merkle tree root	Nonce	Timestamp	Previous block hash
3	Which of the following serve as the primary assumption for a permissioned blockchain?		Single Choice Questions	Single Choice Questions	2	Single Choice	Smart	Closed network	Closed network	Chosen miners	No malicious miners	All of the above
4	In which programming language is Smart Contracts written		Single Choice Questions	Single Choice Questions	2	Single Choice	Smart	solidity	kotlin	tcl/tk	solidity	N/A
5	Blocks hold batches of valid transactions that are hashed and encoded into a?		Single Choice Questions	Single Choice Questions	2	Single Choice	Brilliant	merkle tree	merkle tree	cryptographic hash	genesis block	temporary fork
6	Block chain is made for cross border payment settlements_____		Glossary I	Glossary I	2	Single Choice	Smart	Ripple	Hyperledger	Ripple	Bitcoin	
7	Degree of Centralization is least for_____		Glossary I	Glossary I	2	Single Choice	Smart	Bitcoin	Hyperledger	Ripple	Bitcoin	
8	Transaction throughput is best _____		Glossary I	Glossary I	2	Single Choice	Smart	Hyperledger	Hyperledger	Ripple	Bitcoin	
9	_____ is used as a record keeping system that maintains all the genuine transactions executed between network participants.		Glossary II	Glossary II	2	Single Choice	Smart	Public Ledger	Public Ledger	Private Ledger	Hyperledger	
10	_____ is an open source community focused on developing a suite of stable frameworks, tools and libraries for blockchain deployments.		Glossary II	Glossary II	2	Single Choice	Smart	Hyperledger	Public Ledger	Private Ledger	Hyperledger	
11	Highly Confidential accounts are maintained by _____		Glossary II	Glossary II	2	Single Choice	Smart	Private Ledger	Public Ledger	Private Ledger	Hyperledger	
12	Only Crypto Currency is generated_____		Glossary III	Glossary III	2	Single Choice	Smart	Bitcoin	Hyperledger	Ethereum	Bitcoin	
13	Cryptocurrency & Business Logic used____		Glossary III	Glossary III	2	Single Choice	Smart	Hyperledger	Hyperledger	Ethereum	Bitcoin	
14	Only Business logic is used____		Glossary III	Glossary III	2	Single Choice	Brilliant	Ethereum	Hyperledger	Ethereum	Bitcoin	
15	____ ensures no alterations in the information.		Glossary IV	Glossary IV	2	Single Choice	Smart	Integrity	Integrity	Nonrepudiation	Authenticity	
16	_____ assures the claimed entity.		Glossary IV	Glossary IV	2	Single Choice	Smart	Authenticity	Integrity	Nonrepudiation	Authenticity	
17	_____ deals with denial of the action.		Glossary IV	Glossary IV	2	Single Choice	Smart	Nonrepudiation	Integrity	Nonrepudiation	Authenticity	

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Type	Difficulty	Correct	Option1	Option2	Option3	Option4
18	Integrity of Blockchain can be preserved using_____		Glossary V	Glossary V	2	Single Choice	Smart	SHA 256	SHA 256	RSA	HMAC	
19	Message Authentication can be preserved using_____		Glossary V	Glossary V	2	Single Choice	Smart	RSA	SHA 256	RSA	HMAC	
20	Integrity & authentication can be preserved using_____		Glossary V	Glossary V	2	Single Choice	Brilliant	HMAC	SHA 256	RSA	HMAC	