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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)

(Subjective Type)

Subject Code: AMTAI0214

Subject: Introduction to Blockchain

Max. Mks. : 30

Time : 50 Minutes

General Instructions:

All questions are compulsory.

Question No. 1 to 15 are subjective type question carrying 3 marks each. Attempt any 10 out of 15 questions.

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
1	What is a blockchain?		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart
2	Why is Blockchain called an Immutable Public Ledger?		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart
3	What is miner?		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart
4	Discuss Public key Cryptography.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Brilliant
5	Explain key generation of RSA algorithm.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart
6	Who needs a token?		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart
7	How does PBFT ensure safety and liveness ?		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart
8	What are the main cryptographic concepts in blockchain?		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
9	Compare permissioned and permissionless blockchain over scalability of nodes and throughput of transactions.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart
10	Explain mining principle behind bitcoin and ethereum.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart
11	Draw the transaction flow diagram of Hyperledger Fabric.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Brilliant
12	What was the motivation behind development of ethereum?]		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart
13	Define legal contracts.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Brilliant
14	Where do nodes run a smart contract code?		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Brilliant
15	Discuss how smart contracts developed with blockchain that can be used to achieve crowd funding platform.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart