Total No. of Questions : 5]

SEAT No. :

P-1307

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T.Y. B.Sc.

COMPUTER SCIENCE

CS-3511 : Blockchain Technology

(2019 Pattern) (CBCS) (Semester - V)

Time : 2 Hours] *[Max. Marks : 35*

Instructions to the candidates :

1) ***All questions are compulsory.***
2) ***Figures to the right indicate full marks.***
3) ***Neat diagrams must be drawn wherever required.***

Q1) Attempt any EIGHT of the following (out of TEN) : **[8 × 1 = 8]**

a) What is Non-repudiation?

b) What is difficulty in a block?

c) In which network, each & every node itself is a client and server?

d) What is Ether?

e) What is consensus?

f) What is full node?

g) What is Remix?

h) What is immutable ledger?

i) Define genesis block.

j) What is EVM?

Q2) Attempt any FOUR of the following (out of FIVE) : **[4 × 2 = 8]**

a) Define Symmetric and asymmetric key cryptography.

b) What is stream cipher & block cipher?

c) List the applications of hash function.

d) What is Gas and Gas Limit?

e) What is the purpose of test network? List Ethereum testnets.

P.T.O.

Q3) Attempt any TWO of the following (out of THREE) : **[2 × 4 = 8]**

a) Compare client server & peer to peer architecture.

b) Explain the contents of block of a blockchain.

c) Explain Ethereum architecture with neat diagram.

Q4) Attempt any TWO of the following (out of THREE) : **[2 × 4 = 8]**

a) Enumerate and explain types of blockchain.

b) Write a short note on ICO.

c) Explain forking with types.

Q5) Attempt any ONE of the following (out of TWO) : **[1 × 3 = 3]**

a) Explain the uses of SHA-256 algorithm.

b) What are the tasks of miners?

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