Total No. of Questions : 5]

P-6397

SEAT No. :

[Total No. Of Pages : 2

[Max. Marks : 35

 $[8 \times 1 = 8]$

[6155]-58

T.Y. B.Sc.

COMPUTER SCIENCE

CS - 3511: Blockchain Technology

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

Time : 2 Hours]

Instructions to the candidates :

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

Q1) Attempt any Eight of the following (out of Ten) :

- a) What is hash function?
- b) Define PoW.
- c) What is DApp?
- d) What is consensus?
- e) What is Nonce?
- f) What is Ether?
- g) Give the name of crypto currencies where blockchain is used.
- h) What is DAO?
 - What is plain text and cipher text?
- j) What is a smart contract?

P.T.O.

| Q2) Attempt any Four of the following (out of Five) : | | $[4 \times 2 = 8]$ |
|---|--|--------------------|
| a) | What are the advantages of smart contract? | |
| b) | What is hard fork and soft fork? | |
| c) | What is PoS? Which blockchain uses PoS? | |
| d) | Explain symmetric & asymmetric key cryptography. | |
| e) | Explain the structure of blocks in Blockchain. | |
| Q3) Att | empt any Two of the following (out of Three) : | [2 × 4 = 8] |
| a) | Which are the different types of Blockchain? | |
| b) | What are the challenges of Blockchain? | |
| c) | Write a short note on ICO. | |
| <i>Q4</i>) Attempt any Two of the following (out of Three) : $[2 \times 4 = 8]$ | | |
| a) | Write a short note on digital signature. | |
| b) | Explain the working of mining. | |
| c) | Write a short note on Byzentine fault tolerance. | |
| Q5) Attempt any One of the following (out of Two) : $[1 \times 3 = 3]$ | | |
| a) | Which are the different data types in solidity? | |
| b) | Differentiate between blockchain and database. | |
| 5 | | |

[6155]-58