

Total No. of Questions : 5]

SEAT No. :

**PB-1465**

[Total No. of Pages : 2

**[6226]-307**

**S.Y. B.B.A. (C.A.)**

**CA - 305 : BLOCK CHAIN  
(2019 Pattern) (Semester - III)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*

**Q1) Attempt any eight of the following : (out of ten)**

**[8 × 2 = 16]**

- a) What is Smart Contract?
- b) What is Solidity?
- c) Explain Truffle in Ethereum.
- d) What is Ledger?
- e) Explain Digital Signature.
- f) Explain Cryptography.
- g) What is Hashing?
- h) What is Genesis Block?
- i) What is Mist in Blockchain?
- j) What is Digital Token?

**Q2) Attempt any Four of the following : (out of five)**

**[4 × 4 = 16]**

- a) Explain components of Blockchain.
- b) What is EVM? Explain Ethereum network.
- c) Differentiate between DBMS and Blockchain.
- d) Explain working of hash function.
- e) Explain lifecycle of Blockchain.

**P.T.O**

**Q3) Attempt any Four of the following : (out of five)**

**[4 × 4 = 16]**

- a) Explain structure of Blockchain.
- b) Explain Byzantine Fault Tolerance (BFT) in detail.
- c) Explain Hyperledger Fabric in detail.
- d) Write an Ethereum application in JavaScript for HELLO World contract.
- e) Write a blockchain application in JavaScript for the creation of Transaction block for the account holder.

**Q4) Attempt any Four of the following : (out of five)**

**[4 × 4 = 16]**

- a) Explain DApps in details.
- b) Explain P2P Payment Gateway in brief.
- c) Explain types of network
- d) Write an Ethereum application in JavaScript for smart contracts.
- e) Write a JavaScript code for the implementation of block chain technology.  
(At least two block)

**Q5) Attempt any Two of the following : (out of three)**

**[2 × 3 = 6]**

- a) Explain advantages of Blockchain.
- b) What is Web3?
- c) Define following term :
  - i) Public Key
  - ii) Private Key

