

SPPU-BE-COMP-CONTENT – KSKA Git

Total No. of Questions : 4]

SEAT No. :

P-5191

[Total No. of Pages : 1

[6188]-143

B.E. (Computer Engineering) (Insem)

BLOCK CHAIN TECHNOLOGY

(2019 Pattern) (Semester - VII) (410243)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Solve Q1 or Q2, Q3 or Q4.*
- 2) *Figures to the right indicate full marks.*
- 3) *Assume Suitable data, if necessary.*
- 4) *Neat diagrams must be drawn wherever necessary.*

- Q1)** a) Illustrate Elliptic Curve Cryptography. [6]
b) Justify the importance of Hashing in Block Chain. [4]
c) What is Merkle tree? Explain the structure of merkle tree. [5]

OR

- Q2)** a) Explain working of SHA 256 Algorithm. [6]
b) Describe Digital Signature & Verification steps in Digital Signature Algorithm. [4]
c) Describe Symmetric Key Encryption with neat diagram. [5]

- Q3)** a) Discuss various limitations of centralized system with respect to Decentralized system. [6]
b) Write a note on Evolution of Block Chain. [4]
c) List and Explain algorithms of Consensus layer. [5]

OR

- Q4)** a) Write a note on : [6]
i) Propagation layer
ii) Application layer
b) List & Explain features of Block Chain. [4]
c) Comment on “Feasibility of an Online Voting System Implementation” using Block Chain Technology. [5]

