

SPPU-BE-COMP-CONTENT – KSKA Git

Total No. of Questions : 4]

SEAT No. :

[Total No. of Pages : 2

PE-187

[6580]-547

B.E. (Computer Engineering) (Insem.)
BLOCK CHAIN TECHNOLOGY
(2019 Pattern) (Semester - VII) (410243)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q1 or Q2, Q3 or Q4.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figure to the right indicates full marks.*

Q1) a) Explain the working of SHA-256 Algorithm. [6]

b) Describe asymmetric key encryption with neat diagram. [4]

c) What is Merkle tree? Explain the structure of merkle tree. [5]

OR

Q2) a) Illustrate Elliptic curve cryptography with detail steps. [6]

b) How digital signature & Verification is carried out in digital signature algorithm. [4]

c) List and explain the features of hashing functions. [5]

Q3) a) Define the terms with suitable example. [6]

i) Consensus

ii) Distributed ledger

b) List & explain features of Block chain. [4]

c) Write a note on Propagation Layer & Application Layer. [5]

OR

P.T.O.

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- Q4) a) Discuss various limitations of centralized system with respect to De-centralized system. [6]
- b) Explain the Evolution of Block chain with time line. [4]
- c) What do you think, which limitations of block chain are major hurdle's in its adoption. [5]

