

SPPU-BE-COMP-CONTENT – KSKA Git

Total No. of Questions : 8]

SEAT No. :

PA-914

[Total No. of Pages : 2

[5927]-344

**B.E. (Computer Engineering)
BLOCKCHAIN TECHNOLOGY
(2019 Pattern) (Semester - VII) (410243)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

Q1) a) Explain in detail following blockchain platforms [8]

- i) Public
- ii) Private
- iii) Consortium
- iv) IoTA

b) Discuss following consensus algorithms used in blockchain technology. [6]

- i) Proof of work
- ii) Proof of activity

c) Explain proof of stake (POS)? [4]

OR

Q2) a) Explain consensus in blockchain in details. [8]

b) Explain in detail [6]

- i) Bitcoin
- ii) Ethereum
- iii) Hyperledger

c) Discuss Byzantine General problem. [4]

OR

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- Q3)** a) List & explain types of crypto currency. [6]
b) What is Metamask? Illustrate in detail. [6]
c) Differentiate between coinbase & Binance. [5]

OR

- Q4)** a) What is cryptocurrency? Explain in detail. [6]
b) Explain in detail crypto wallets. [6]
c) Explain in detail Bitcoin. [5]

- Q5)** a) What is Ethereum? Explain. [8]
b) Explain solidity in detail. [6]
c) Discuss swarm Decentralized storage platform. [4]

OR

- Q6)** a) What is smart contract? Explain types of smart contracts. [8]
b) Discuss whisper Decentralized Messaging platform. [6]
c) Explain Ethereum Virtual Machine in detail. [4]

- Q7)** a) Explain Block chain applications in retail & banking services. [6]
b) Explain role of blockchain in IoT. [6]
c) Explain role of blockchain in Healthcare. [5]

OR

- Q8)** a) Discuss integration of blockchain with other domains. [6]
b) Explain blockchain applications in financial services. [6]
c) Explain application of blockchain government sector. [5]
