

# SPPU-BE-COMP-CONTENT – KSKA Git

Total No. of Questions : 8]

SEAT No. :

**P547**

[Total No. of Pages : 2

**[6004]-482**

**B.E. (Computer Engineering)**

**BLOCKCHAIN TECHNOLOGY**

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

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

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

**Q1) a) Explain in details [8]**

- i) Bitcoin
- ii) Hyperledger

**b) Explain types of Blockchain in details? [6]**

**c) Explain in details any one algorithm. [4]**

**OR**

**Q2) a) List different consensus algorithms used in Blockchain Technology. Explain any two algorithms in detail. [8]**

**b) Write a note on Corda and R3. [6]**

**c) Explain Byzantine General problem. [4]**

**Q3) a) Write a note on Bitcoin. [6]**

**b) Describe Token in details with example? [6]**

**c) Define types of crypto currencies. [5]**

**OR**

**Q4) a) Different between Coinbase and Binance. [6]**

**b) Explain in details crypto wallets. [6]**

**c) Write a note on Coinbase. [5]**

**P.T.O.**

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- Q5)** a) Discuss what is Ethereum. [8]  
b) Explain In Details Whisper? [6]  
c) Define the purpose and types of Smart Contracts. [4]

OR

- Q6)** a) Write a note on Ethereum Virtual Machine. [8]  
b) Write a note on Swarm. [6]  
c) What is a smart contract? Explain with an example. [4]

- Q7)** a) Explain use of Blockchain in retail. [6]  
b) List and explain benefits of using Blockchain in Government sector. [6]  
c) List and explain any two Blockchain applications. [5]

OR

- Q8)** a) Discuss use of Blockchain in Healthcare. [6]  
b) List and explain any two applications of Blockchain in retail. [6]  
c) Explain how Blockchain can be used in Financial services. [5]

