

Total No. of Questions : 6]

SEAT No. :

PA-10342

[Total No. of Pages : 1

[6009]-448

T.E. (Electronics & Telecommunication) (Insem.)
DECENTRALIZE & BLOCKCHAIN TECHNOLOGIES
(2019 Pattern) (Semester - II) (304183HBCT)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Attempt Q1 or Q2, Q3 or Q4 and Q5 or Q6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*

Q1) a) Define blockchain and explain basic mechanisms in detail. **[6]**

b) What is smart contracts and how it works? **[4]**

OR

Q2) a) Explain ecosystem for decentralized system. **[6]**

b) Write a short note on consensus algorithm. **[4]**

Q3) a) Explain how distribute block chain works in detail. **[6]**

b) Explain terms : **[4]**

i) Block Metadata

ii) The Genesis Block

OR

Q4) a) Explain the terms : **[6]**

i) Whisper

ii) Swarm

b) What is blockchain mining? Enlist types of mining. **[4]**

Q5) a) Explain Decentralized applications in details? **[6]**

b) What is Fork? Explain why fork is important? **[4]**

OR

Q6) a) What is the Difference decentralized system and distributed system in cryptocurrency? **[6]**

b) Explain the uses of Swarm in details. **[4]**

