

Total No. of Questions : 4]

SEAT No. :

PD310

[Total No. of Pages : 1

[6411]-89

**B.E. (Information Technology) (Insem)**

**BLOCKCHAIN TECHNOLOGY**

**(2019 Pattern) (Semester - VIII) (Elective - VI) (414452 D)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Attempt Q.1 or Q.2, Q.3 or Q.4.*
- 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 stream ciphers & block ciphers. [4]

b) What is Cryptocurrency? Explain. [5]

c) Compare Symmetric-key & Asymmetric-key cryptography. [6]

OR

**Q2) a)** Explain Elliptic Curve Cryptography. [4]

b) Explain the concept of Decentralized System. [5]

c) Explain Algorithms RSA & SHA 256. [6]

**Q3) a)** List & Explain types of Blockchains. [6]

b) Explain transaction life cycle in Bitcoin. [5]

c) Define Blockchain. Explain Generic elements of Blockchain. [4]

OR

**Q4) a)** Explain types of transaction in Bitcoin. [6]

b) Explain Platforms for decentralization. [5]

c) Define Bitcoin. What are the important features of it? [4]

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