

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF ENGINEERING
MID TERM EXAMINATION - OCT 2023**

Semester : Semester V - 2021

Course Code : CSE2019

Course Name : Sem V - CSE2019 - Foundations of Blockchain Technology

Program : B.TECH

Date : 31-OCT-2023

Time : 11:30AM - 1:00PM

Max Marks : 50

Weightage : 25%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

PART A

ANSWER ALL THE QUESTIONS

(5 X 2 = 10M)

1. Write a short note on Decentralized Network and Peer to Peer Networks
(CO1) [Knowledge]
2. Explain the concept of ledger in Blockchain
(CO1) [Knowledge]
3. Discuss how to validate a new block in blockchain
(CO1) [Knowledge]
4. Identify the security issues of PoW
(CO2) [Knowledge]
5. Illustrate the benefits of consortium blockchain
(CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(2 X 10 = 20M)

6. Compare the three types of Blockchain.
(CO1) [Comprehension]
7. Describe the need for blockchain
(CO2) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION

(1 X 20 = 20M)

8. Illustrate the consensus safety and liveness in blockchain in detail
(CO2) [Application]

