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**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF MANAGEMENT
MID TERM EXAMINATION - APR 2023**

Semester : Semester IV -2021

Course Code : COM3026

Course Name : Sem IV - COM3026 - Concept of Block chain

Program : BBF

Date : 15-APR-2023

Time : 9:30AM - 11AM

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.*
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PART A

ANSWER ALL THE QUESTIONS

(5 X 2 = 10M)

1. Examine the effect blockchain will have on the financial sector.
(CO1) [Knowledge]
2. How do the main qualities of blockchain effect business operations?
(CO1) [Knowledge]
3. Given a specific use case, such as a decentralized voting system, how would the different layers of a blockchain architecture be designed and implemented?
(CO1) [Knowledge]
4. In what ways could blockchain technology be used to create a dependable supply chain management system?
(CO2) [Knowledge]
5. What ethical repercussions might occur if blockchain technology is utilised to store financial or personal data?
(CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(2X 10 = 20M)

6. Describe how blockchain can be used to enable secure and efficient peer-to-peer transactions.
(CO1) [Comprehension]

7. Compare and contrast the scalability challenges of the proof of work (PoW) and proof of Authority (PoA) consensus mechanism.

(CO2) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

(1 X 20= 20M)

8. Choose an industry that is undergoing significant disruption due to blockchain technology (such as banking or real estate). Describe the current state of the industry and how blockchain is likely to impact it in the future.

(CO2) [Application]

1.