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**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF MANAGEMENT**

**TEST 1**

**Winter Semester:** 2021 - 22

**Course Code:** MGI242

**Course Name:** Concept of Blockchain

**Program & Sem:** BBA Financial Technology

**Date:** 26<sup>th</sup> April 2022

**Time:** 03.00PM to 04.00PM

**Max Marks:** 30

**Weightage:** 15%

**Instructions:**

*(i) Read the all questions carefully and answer accordingly.*

**Part A [Memory Recall Questions]**

**Answer all the Questions. Each question carries 1 mark.**

**(10Qx1M= 10M)**

- Blockchain is a shared, \_\_\_\_\_ that facilitates the process of recording transactions and tracking assets in a business network. (C.O.No.1) [Knowledge]  
a. immutable ledger      b. absolute ledger      c. digital ledger
- \_\_\_\_\_ network can track orders, payments, accounts, production and much more. (C.O.No.1) [Knowledge]  
a. Artificial Intelligence      b. blockchain      c. Machine learning
- \_\_\_\_\_ can define conditions for corporate bond transfers, include terms for travel insurance to be paid and much more. (C.O.No.1) [Knowledge]  
a. Trading      b. digital contract      c. Smart contract
- \_\_\_\_\_ is one computer in a network of many that follows rules and shares information. (C.O.No.1) [Knowledge]  
a. Connection      b. Exchange      c. node
- Cryptography is the science of protecting information by transforming it into a secure format. This process, called (C.O.No.1) [Knowledge]  
a. decryption      b. encryption      c. digital

6. \_\_\_ and \_\_\_ fork events refer to the process of implementing new changes to a blockchain project's code. (C.O.No.1) [Knowledge]  
a. hard and soft                      b. hard and cold      c. smooth and solid
7. How blockchain works? (C.O.No.2) [Comprehensive]
8. Why hash is used in blockchain? (C.O.No.1) [Knowledge]
9. Given examples for hard fork. (C.O.No.2) [Comprehensive]
10. Hashing is a cryptographic process that can be used to validate the \_\_\_ and \_\_\_ of various types of input. (C.O.No.1) [Knowledge]  
a. validity and truth                      b. authenticity and integrity                      c. safety and honest

### **Part B [Thought Provoking questions]**

**Answer both the Questions. Each question carries 5 marks. (2Qx5M=10M)**

11. Illustrate the benefits of blockchain. (C.O.No.1) [Knowledge]
12. Difference between hard and soft fork. (C.O.No.2) [Comprehensive]

### **Part C [Problem Solving question]**

**Answer the Question. Question carries 10 marks. (1Qx10M=10M)**

13. Mr. Big has been in business for a long time, both domestically and internationally. His business is thriving, but as it grows, several countries are requesting that Mr. Big accept bitcoin or cryptocurrency for business transactions. Please advise Mr. Big on how he may move forward with implementing the blockchain concept in his company. (C.O.No.2) [Comprehensive]



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**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF MANAGEMENT**

**TEST 2**

**Winter Semester:** 2021 - 22

**Course Code:** MGI242

**Course Name:** Concept of Blockchain

**Program & Sem:** BBA Financial Technology

**Date:** 1<sup>st</sup> June 2022

**Time:** 3.00 PM to 4.00 PM

**Max Marks:** 30

**Weightage:** 15%

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**Instructions:**

(i) *Read the all questions carefully and answer accordingly.*

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**Part A [Memory Recall Questions]**

**Answer all the Questions. Each question carries one mark.**

**(10Qx1M= 10M)**

1. \_\_\_\_\_ requires the people who own the computers in the network to solve a complex mathematical problem to be able to add a block to the chain.

(C.O.No.3) [Comprehensive]

- a. Proof of work      b. Proof of stake      c. Proof of proof

2. \_\_\_\_\_ is a set of organizations that use blockchain technology to improve collaboration in the production and consumption of particular goods and services.

(C.O.No.3) [[Comprehensive]

- a. business      b. business network      c. business startup

3. \_\_\_\_\_ refer to crypto storage that uses online software to protect the private keys to your Assets.

(C.O.No.3) [Comprehensive]

- a. hot wallet      b. cold wallet      c. digit wallet

4. \_\_\_\_\_ is a distributed consensus system that is used to *confirm* pending transactions by including them in the block chain.

(C.O.No.3) [Comprehensive]

- a. Ledger      b. bitcoin      c. Mining

5. \_\_\_\_\_ is one of the most promising alternative coins to bitcoin. It permits very fast

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transactions, which are untraceable.

(C.O.No.3) [Comprehensive]

a. Pash

b. Dash

c. Hash

6. \_\_\_\_\_ is a well-known cryptocurrency project that was created using code originally written for the Bitcoin Core client. (C.O.No.4) [Comprehensive]

a. CashY

b. Dcash

c. Zcash

7. How smart contract work in financial sector? (C.O.No.4) [Comprehensive]

8. Given an example for bitcoin Script system allows users to send several forms of payments. (C.O.No.3) [Comprehensive]

9. How much does an average Bitcoin miner earn? (C.O.No.4) [Comprehensive]

10. Crypto mining often relies heavily upon \_\_\_\_\_ sources of energy, which has raised public concerns over carbon emissions. (C.O.No.4) [Comprehensive]

a. solar

b. non-renewable

c. renewable

### **Part B [Thought Provoking questions]**

**Answer both the Questions. Each question carries five marks.**

**(2Qx5M=10M)**

11. Illustrate the benefits of using the Cryptographic hash functions in blockchain.

(C.O.No.3) [Comprehensive]

12. Mr. Xyz wants to get into cryptocurrency mining. He is aware of it, but is unsure how to proceed with it. Please make a recommendation to him in this regard.

(C.O.No.4) [Comprehensive]

### **Part C [Problem Solving question]**

**Answer the Question. Question carries ten marks.**

**(1Qx10M=10M)**

13. Tong Bank has been in the banking business for ten years and handles both domestic and international corporate transactions. As the business grows, Tong Bank wants to focus on technological advancements and digitization, and blockchain, as one of the most disruptive technologies, will have a significant impact on their business and that of other banks. Tong bank is looking for suggestions on how they may incorporate blockchain technology into their banking activities to make it easier for their customers to transact with them.

(C.O.No.4) [Comprehensive]



Roll No

**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF MANAGEMENT**

**END TERM EXAMINATION**

**Winter Semester:** 2021 - 22

**Course Code:** MGI 242

**Course Name:** Concept of Blockchain

**Program & Sem:** BBA (FT) – IV Sem

**Date:** 30<sup>th</sup> June 2022

**Time:** 01:00 PM to 04:00 PM

**Max Marks:** 100

**Weightage:**50%

**Instructions:**

(ii) Read the all questions carefully and answer accordingly.

**Part A [Memory Recall Questions]**

**Answer all the Questions. Each question carries THREE marks.**

**(10Qx 3M= 30M)**

1. Blockchain is a peer-to-peer \_\_\_\_ ledger technology that makes any \_\_\_\_ asset's records \_\_\_\_ and unchangeable. (C.O.No.1)

[Knowledge]

- a) distributed, digital and transparent    b) spread, numerical and honest  
c) scattered, technology and clear

2. \_\_\_\_ requires the people who own the \_\_\_\_ in the network to solve a complex mathematical problem to be able to add a \_\_\_\_ to the chain. (C.O.No.2)

[Knowledge]

- a) proof of stake, computers and add    b) proof of work, computers and block  
c) Proof, system and lump

3. \_\_\_\_ fork is essentially the opposite of a \_\_\_\_ fork, whereby newly implemented changes remain backward-compatible with \_\_\_\_ versions. (C.O.No.2)

[Knowledge]

- a) Easy, solid and new    b) hard, soft and light    c) soft, hard and older

4. Differentiate between hard and soft fork in blockchain technology. (C.O.No.2)

[Knowledge]

5. How can digital signature used in business transactions with an example?

(C.O.No.3) [Comprehensive]

6. Match the following

(C.O.No.4) [Comprehensive]

i) Satoshi Nakamoto	Hash
ii) Terra	bitcoin
iii) Cryptographical	cryptocurrency

7. When it comes to receiving and sending Bitcoin, how long does it take? (C.O.No.1)

[Knowledge]

8. Brief about uses of DAO in blockchain.

(C.O.No.4) [Comprehensive]

9. \_\_\_\_ attacks and \_\_\_\_ fraud are reduced by the use of \_\_\_\_ ledgers. (C.O.No.1) [Knowledge]

(C.O.No.1) [Knowledge]

- a) Cyber, financial and distributed    b) fake, fiscal and spread    c) financial, virtual and scattered

10. How does the cryptocurrency works?

(C.O.No.1) [Knowledge]

## Part B [Thought Provoking Questions]

Answer all the Questions. Each question carries EIGHT marks.

(5Qx8M=40M)

11. Max Construction has been in the real estate industry for a decade. They are growing their operations in several places across the country. As the number of projects grows, so do the number of customers. They have a well-established department to deal with clients about their projects, purchases, and so on. However, Max is having trouble with customer documentation and agreements. Please advise Max Construction on what type of contract they can provide their consumers. (C.O.No.4)  
[Comprehensive]
12. Mr. Money has been in the NBFC business for a long time, with branches all around the country. They recognised the banking industry's potential and filed for a license from the RBI, which they were granted. They must be in business for an extended period of time, and they must adopt technology from the beginning. As a result, they intend to use block chain technology. What are your thoughts on Mr. Money's implementation of blockchain technology in banking operations? (C.O.No.4) [Comprehensive]
13. Ms. Seethal is captivated by cryptocurrency and plans to invest in one. As a result, she intends to present herself to a cryptocurrency trading platform where other investors would be able to trade her cryptocurrency. But she has no idea how to make it or which blockchain platform she may utilise. Please share your thoughts on it. (C.O.No.3) [Comprehensive]
14. East & Co. intends to begin crypto mining, but they are unsure how to do it. They have no experience in the mining industry, but they have examined the industry's expansion in the market. East & co needed your advice on how to mine bitcoins and the process that goes along with it. (C.O.No.3)  
[Comprehensive]
15. Z cash is a freshly launched bitcoin on the cryptocurrency market. Customers are investing in their bitcoin and using it as an alternative payment in digital currency for their transactions. Customers of z cash are experiencing difficulties in completing transactions; nevertheless, z cash has discovered that the problem is caused by miners. Do you have any idea what kind of vulnerability attack Z cash might encounter? (C.O.No.4) [Comprehensive]

## Part C [Problem Solving Questions]

Answer both the Questions. Each question carries FIFTEEN marks.

(2Qx15M=30M)

16. Bitcoin is a digital money that was first introduced in early 2009. Bitcoin was designed to be a peer-to-peer electronic cash system that could be sent without the need for a central bank or other authority to administer and maintain the ledger, similar to how physical cash is handled. The original and largest blockchain powers the bitcoin ledger, while additional blockchains power hundreds of other comparable currency initiatives with differing rules. Miners – those who perform the computational labour of uploading new transactions – are compensated with newly-minted bitcoins. It is self-sustaining as long as the money is desirable. To keep inflation under control, the system automatically increases the difficulty of publishing transactions and the reward for doing so. (C.O.No. 3)

[Application]

The scenario described above is entirely about cryptocurrencies. A few questions are then offered for debate.

- What are the factors that make bitcoin so appealing to users?
- Explain the challenges encountered in the process of usage.

17. Fog Bank has been in the banking business for ten years and handles both domestic and international corporate transactions. As the business grows, Fog bank wants to focus on technological advancements and digitization, and blockchain, as one of the most disruptive technologies, will have a significant impact on their business and that of other banks. It is looking for suggestions on

i) How they may incorporate blockchain technology in their banking activities.

ii) what are the ways that a customer can be benefit from banking transaction by the use of technology? (C.O.No.4)

[Comprehensive]