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# PRESIDENCY UNIVERSITY

Presidency University Act, 2013 of the Karnataka Act No. 41 of 2013 | Established under Section 2(f) of UGC Act, 1956  
Approved by AICTE, New Delhi | Approved By BCI  
Bengaluru

## Even Semester Mid Term, March 2026

**Date: 10/03/2026**

**Time: 09:30 AM - 11:00 AM**

**Course Code: MBA3082**

**Course Name: Fintech**

**Semester: Fourth Semester**

**Max. Marks: 50**

**Weightage: 50%**

CO - Levels	CO1	CO2
Marks	29	41

### Part A: Answer Following Questions. 15 M

Qn.No	Questions	M	CO	BT
1	List the key changes FinTech has brought to the BFSI value chain.	3	CO1	BT1
2	Identify the major technologies used in the FinTech ecosystem.	3	CO1	BT2
3	Identify the role of Machine Learning and Cloud Computing in FinTech operations.	3	CO1	BT2
4	List real-life applications of cryptography in banking and financial services.	3	CO2	BT1
5	Identify how blocks are connected within a blockchain network to maintain data integrity.	3	CO2	BT2

### Part B: Answer Any 1 Following Questions. 10 M

Qn.No	Questions	M	CO	BT
6	Critically evaluate the emerging trends in the FinTech industry and justify how technologies such as Machine Learning and Cloud Computing.	10	CO1	BT4
7	Explain the process and functioning of the UPI payment settlement mechanism, illustrating each stage of the transaction cycle with relevant real-life examples.	10	CO1	BT2

### Part C: Answer Any 1 Following Questions. 10 M

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Qn.No	Questions	M	CO	BT
8	Evaluate the transformative impact of blockchain technology across diverse sectors, Critically analyze its practical applications, benefits, limitations, and long-term implications, supporting your answer with relevant real-world examples.	10	CO2	BT4
9	Explain the concept of Public Key Cryptography and describe how it is used for digital signatures in blockchain systems. How do these mechanisms help ensure security, authentication, and non-repudiation in blockchain transactions.	10	CO2	BT2

**Part D: Answer Following Questions. 15 M**

Qn.No	Questions	M	CO	BT
10	<p>NovaTrust Bank is a mid-sized private sector bank aiming to position itself as a technology-driven financial institution. In recent years, many of its corporate clients have demanded faster international remittances, transparent trade documentation, and real-time payment tracking. To stay competitive, NovaTrust is considering adopting blockchain technology for cross-border settlements and digitizing its trade finance operations using smart contracts. Additionally, the bank's wealth management division has noticed growing interest among high-net-worth customers in digital assets such as cryptocurrencies and tokenized investment products. As a result, the management is exploring the launch of a secure digital asset custody service and an in-app crypto trading facility integrated into its mobile banking platform. However, the board of directors is divided. Some executives believe blockchain will reduce fraud, improve transparency, and lower operational costs. Others are concerned about regulatory uncertainty, cybersecurity risks, volatility of cryptocurrencies, and the compliance requirements under Indian financial regulations. There are also concerns about public key management, data privacy, anti-money laundering (AML) compliance, and the reputational risk associated with crypto-related services. Recently, a competing bank faced significant financial penalties due to weak compliance controls in its digital asset division. This incident has made NovaTrust cautious about moving forward without a structured risk assessment and regulatory roadmap. The bank has now formed a strategic task force to evaluate the technological, financial, and regulatory implications before making a final decision.</p> <p>Answer the question based on above case:</p> <ol style="list-style-type: none"> <li>Analyze the role of blockchain technology, public key cryptography, and digital assets in transforming modern banking services.</li> <li>Examine the potential business applications and operational advantages of blockchain-based trade finance and digital asset custody services for NovaTrust Bank.</li> </ol>	15	CO2	BT5

3. Evaluate the regulatory challenges, compliance risks, and cybersecurity concerns associated with cryptocurrency trading and tokenized financial products in the Indian context			
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