Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 29-10-2025 **Time:** 02.30pm to 04.00pm

School: SOCSE/SOE	**Program:** B.Tech. Computer Science and Engineering (Block Chain)	
Course Code: CBC3408	**Course Name**: AI Powered Fraud Detection in Block Chain	
Semester: VII	**Max Marks**: 50	**Weightage**: 25%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	26	24			

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

SET-A

Part A

Answer ALL the Questions. Each question carries 2marks. **5Q x 2M=10M**

1	Give two examples of anti-fraud mechanisms used in block chain systems.	**2 Marks**	**L1**	**CO1**
2	How can XAI improve trust in fraud detection models?	**2 Marks**	**L4**	**CO1**
3	What is the main risk associated with flash loans in DeFi?	**2 Marks**	**L2**	**CO1**
4	What is k-means clustering and how is it useful in detecting anomalies?	**2 Marks**	**L3**	**CO2**
5	How does feature engineering improve the accuracy of ML fraud detection models?	**2 Marks**	**L4**	**CO2**

Part B

Answer the Questions. **Total Marks 40M**

6.	**a.**	Explain in detail the different types of frauds in block chain networks.	**10 Marks**	**L2**	**CO1**
		Or			
7.	**a.**	Discuss the challenges in implementing AML and KYC regulations	**10 Marks**	**L4**	**CO1**

8.	**a.**	Evaluate the importance of governance, regulation, and compliance frameworks.	**10 Marks**	**L5**	**CO1**
		Or			
9.	**a.**	How can block chain analytics and AI-based approaches are integrated.	**10 Marks**	**L3**	**CO1**

10.	**a.**	Compare supervised and unsupervised learning techniques.	**10 Marks**	**L2**	**CO2**
		Or			
11.	**a.**	Explain the working of Graph Neural Networks.	**10 Marks**	**L1**	**CO2**

12.	**a.**	Describe the workflow of an ML-based fraud detection system.	**10 Marks**	**L2**	**CO2**
		Or			
13.	**a.**	Write short notes on EtherScan, Elliptic and AMLSim datasets.	**10 Marks**	**L2**	**CO2**