Roll No: | | | | | | | | | | | |

PRESIDENCY UNIVERSITY

GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

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

Mid Term Examinations - October 2026

Date: 09/10/2026 **Time:** 02:00 PM - 03:30 PM

Course Code: CBC2500 **Course Name:** Smart Contract and Solidity

Semester: Fifth Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2
Marks	46	44

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	1.State any two advantages of deploying applications on blockchain.	2	CO1	BT1
2	2.Label two functions of the Ethereum Virtual Machine (EVM).	2	CO1	BT1
3	3.List any two difference between between public and private blockchain	2	CO1	BT1
4	4.Define a constructor in Solidity with example.	2	CO2	BT1
5	5.What is the syntax for declaring arrays in Solidity	2	CO2	BT1

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	6.Discuss the working principle of Ethereum Virtual Machine with an example.	10	CO1	BT2
7	7.Illustrate the deployment process of a simple smart contract using Remix IDE	10	CO1	BT2

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	8.Explain the architecture of a blockchain with neat diagram.	10	CO1	BT2
9	9.Extend the security challenges of smart contracts on blockchain.	10	CO1	BT2

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	10.Demonstrate the structure of a Solidity source file with example code.	10	CO2	BT2
11	11.Compare how mappings and arrays are used for data storage in Solidity.	10	CO2	BT2

PART E: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
12	12.Outline the concept of inheritance and polymorphism in Solidity contracts.	10	CO2	BT2
13	13.Summarize the concepts of expressions and control structures in Solidity with examples.	10	CO2	BT2