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: 05/10/2026 **Time:** 11:45 AM - 01:15 PM

Course Code: MAT1211 **Course Name:** Linear Algebra, Differential Equations and Statistical Methods

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

CO - Levels	CO1	CO2	CO3
Marks	44	48	88

ANSWER KEY

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	Rank of matrix=rank of augmented matrix is less than number of unknowns	2	CO1	BT1
2	Write the characteristic polynomial	2	CO2	BT2
3	Write the symmetric matrix	2	CO2	BT2
4	Statement	2	CO3	BT1
5	Limit value is 1	2	CO3	BT2

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	x=2 y=-1 z=3	10	CO1	BT3
7	x=1, y=2, z=3	10	CO1	BT3

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	Eigenvalue are 0, 3, 15	10	CO2	BT3
9	Eigenvalue are -2, 3, 6	10	CO2	BT3

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	a)c=3/2, b)c=0	10	CO3	BT3
11	Find the value of c in both cases	10	CO3	BT3

PART E: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
12	Find the limit value	10	CO3	BT3
13	Find the limit value	10	CO3	BT3