Graphic Era
HILL UNIVERSITY
Established by an Act of the State Legislature of Uttarakhand (Adhiniyam Sankhya 12 of 2011)
University under section 2(f) of UGC Act, 1956

Sessional I (Odd) Semester Examination, September 2025

Roll no.....

Name of the Course: **B.Pharm**
Semester- **First Semester**
Name of the Paper: **Remedial Mathematics**
Paper Code: **BP106RMT**
Time: 1.5 **hour** Maximum Marks: **30**

Note:
(i) This question paper contains two sections
(ii) All the sections are compulsory

Section A

Short Questions: Attempt any **Four** questions. **4x5 = 20 marks**

S.N.	QUESTIONS	CO's
1	Resolve $\frac{5x+3}{(x-1)(x+2)}$ into partial fraction.	CO1
2	Evaluate (i) $\lim_{x\to 1}(x^3+x^2-1)$ (ii) $\lim_{x\to 3}\frac{x^2-9}{x-3}$	CO1
3	Write the following in the logarithm form. (i) $4^{3/2}=8$ (ii)$10^1=10$	CO1
4	Define following with an example (i) Zero Matrix (ii) Column matrix (iii) Square matrix (iv) Identity matrix (v) Upper triangular matrix	CO2
5	Solve by Cramer's rule 5x-7y+z=11 , 6x-8y-z=15 and 3x+2y-6z=7	CO2
6	Find the value of the determinant A= $\begin{vmatrix} 1 & -1 & 3 \\ 5 & 2 & 2 \\ 4 & 1 & 3 \end{vmatrix}$	CO2

Section B

Long questions: Attempt any **ONE** question **1x10 = 10 marks**

S.N.	QUESTIONS	CO's
1	Resolve $\frac{x}{(x+1)(x-1)(x+2)}$ into partial fraction.	CO1
2	Find the inverse of the matrix $A=\begin{bmatrix}1 & 2 & 3\\ 2 & 3 & 1\\ 3 & 1 & 2\end{bmatrix}$	CO2