



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

Pharmacy Sessional-I (Odd) Semester (Late/Lateral Admission) Examination November 2025

Roll No.....

Name of the Course: B. Pharma

Semester: I

Name of the Paper: Remedial Mathematics

Paper Code: BP 106 RMT

Time: 1.5 Hour

Maximum Marks: 30

Note:

- (i) This question paper contains two sections.
- (ii) All the questions are compulsory.

Section A

Q. 1 Short Questions: Attempt any four questions

(4X 5 = 20 Marks)

- a. Define function and its types with examples.
- b. Resolve the following partial fraction

$$\frac{3x}{(x-1)(x+2)}$$

- c. Simplify

$$7 \log \frac{10}{9} - 2 \log \frac{25}{24} + 3 \log \frac{81}{80}$$

- d. Compute the determinants of the following matrices

$$(i) \begin{bmatrix} 5 & 2 & 1 \\ 3 & 0 & 2 \\ 8 & 1 & 3 \end{bmatrix}, \quad (ii) \begin{vmatrix} x^2 - x + 1 & x + 1 \\ x & x - 1 \end{vmatrix}$$

- e. Define the following term with example

- (i) Matrix,
- (ii) Diagonal Matrix,
- (iii) Scalar matrix,
- (iv) Row Matrix,
- (v) Determinant.

f. If $A = \begin{bmatrix} 3 & 4 & 6 \\ 4 & 5 & 2 \end{bmatrix}$, $B = \begin{bmatrix} -2 & 1 & 2 \\ 1 & 2 & 0 \end{bmatrix}$

Find (i) $5A + 3B$ (ii) Prove that $A + B = B + A$

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Section B

Q. 2 Long questions: Attempt any one question

(1X10 = 10 Marks)

- a. Resolve the following partial fraction

$$\frac{5x + 7}{(x - 2)(x - 4)(x - 6)}$$

- b. Find the inverse of the given matrix

$$A = \begin{bmatrix} 1 & 2 & 3 \\ 0 & 2 & 4 \\ 0 & 0 & 5 \end{bmatrix}$$