

General Instructions :

- (i) All questions are compulsory.
- (ii) The question paper consists of 29 questions divided into three Sections A, B and C. Section A comprises of 10 questions of one mark each. Section B comprises of 12 questions of four marks each and Section C comprises of 07 questions of six marks each.
- (iii) All questions in Section A are to be answered in one word, one sentence or as per the exact requirement of the question.
- (iv) There is no overall choice. However, internal choice has been provided in 04 questions of four marks each and 02 questions of six marks each. You have to attempt only one of the alternatives in all such questions.
- (v) Use of calculators is **not** permitted. You may ask for logarithmic tables, if required.

खण्ड - अ
SECTION - A

प्रश्न संख्या 1 से 10 तक प्रत्येक प्रश्न 1 अंक का है।
Question numbers 1 to 10 carry 1 mark each.

1. $\tan^{-1}(1) + \cos^{-1}\left(-\frac{1}{2}\right)$ का मुख्य मान लिखिए।

Write the principal value of $\tan^{-1}(1) + \cos^{-1}\left(-\frac{1}{2}\right)$.

2. $\tan\left(2 \tan^{-1}\frac{1}{5}\right)$ का मान लिखिए।

Write the value of $\tan\left(2 \tan^{-1}\frac{1}{5}\right)$.

3. यदि $\begin{bmatrix} a-b & 2a+c \\ 2a-b & 3c+d \end{bmatrix} = \begin{bmatrix} -1 & 5 \\ 0 & 13 \end{bmatrix}$ है, तो a का मान ज्ञात कीजिए।

Find the value of a if $\begin{bmatrix} a-b & 2a+c \\ 2a-b & 3c+d \end{bmatrix} = \begin{bmatrix} -1 & 5 \\ 0 & 13 \end{bmatrix}$

4. यदि $\begin{vmatrix} x+1 & x-1 \\ x-3 & x+2 \end{vmatrix} = \begin{vmatrix} 4 & -1 \\ 1 & 3 \end{vmatrix}$ है, तो x का मान लिखिए।

If $\begin{vmatrix} x+1 & x-1 \\ x-3 & x+2 \end{vmatrix} = \begin{vmatrix} 4 & -1 \\ 1 & 3 \end{vmatrix}$, then write the value of x .

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