CBSE Class 12 Maths Sample Paper Set 1

Time: 3 hours   **Total Marks: 100**

1. All questions are compulsory.

2. The question paper consist of 29 questions divided into four sections A, B, C and D. Section A comprises of 4 questions of one mark each, section B comprises of 8 questions of two marks each, section C comprises of 11 questions of four marks each and section D comprises of 6 questions of six marks each.

3. Use of calculators is not permitted.

SECTION – A

1. Find the inverse of $g: R \rightarrow R$, $g(x) = 4e^{2x} + 3$ and the domain of the $g^{-1}(x)$

2. What should be the value of n for which the points (2, -3), (3, 1) and (5, n) are collinear?

3. If X is a set of the factors of 30, $a, b \in X$ and $f(a, b, c) = (a + b) * (b' + c)$ where

    (i)   a + b is defined such that a + b = LCM(a,b)
    (ii)   a*b is defined such that a*b = GCD (a,b)
    (iii)   a' =30/a

What is the value of f(2,5,15)?

4. A parallelogram is constructed on $3\vec{a} + \vec{b}$ and $\vec{a} - 4\vec{b}$ where $\vec{a} = 6$ and $\vec{b} = 8$ and $\vec{a}$ and $\vec{b}$ are anti-parallel. What is the length of the longer diagonal?

(OR)

If $a = \hat{\imath} + \hat{\jmath} + \hat{k}, b = \hat{\imath} - \hat{\jmath} + 2\hat{k}$ and $c = x\hat{\imath} + (x - 2)\hat{\jmath} - \hat{k}$, and if the vector lies in the plane of vectors a and b , then what is the value of x?

SECTION – B

5. Express the matrix $A = \begin{bmatrix} 3 & 7 \\ 1 & 4 \end{bmatrix}$ as sum of two matrices such that one is symmetric and the other is skew symmetric.

(OR)

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