

## CBSE Class 12 Maths Sample Paper Set 1

Time: 3 hours

Total Marks: 100

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

Find the inverse of g: R → R, g(x) = 4e<sup>2x</sup> + 3 and the domain of the g<sup>-1</sup>(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

- 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  $a=i+j+\bar{k}$ ,  $b=i-j+2\bar{k}$  and  $c=xi+(x-2)j-\bar{k}$ , 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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