

# 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  $a + b = \text{LCM}(a, b)$
  - (ii)  $a * b$  is defined such that  $a * b = \text{GCD}(a, b)$
  - (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  $\vec{a} = \hat{i} + \hat{j} + \hat{k}$ ,  $\vec{b} = \hat{i} - \hat{j} + 2\hat{k}$  and  $\vec{c} = x\hat{i} + (x - 2)\hat{j} - \hat{k}$ , and if the vector lies in the plane of vectors  $\vec{a}$  and  $\vec{b}$ , 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)

# Maths Sample Paper 124

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the 'Oswaal Editorial Board' text.

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**Revise for London GCSE Mathematics** Keith Pledger, David Kent, 1997 A revision guide for the London Examinations Board GCSE higher maths exam The book offers key point summaries of candidates expected knowledge worked examples test yourself diagnostic questions and a further practice examination paper The text is cross referenced to the companion course text *Residual Mathematics in Adults* Harry Frost, 1967

**Girls Into Maths Can Go** Leone Burton, 1986 The book was conceived as support to an in service pack PM645 entitled girls into maths which has been jointly developed by the Inner London Education Authority and the Open University and is available from the Open University The contributions were deliberately chosen from a wide range of sources some by academics some by practitioners some written for a general readership Together they present a current picture of the state of thinking about gender issues in mathematics education without claiming to be an all inclusive It is hoped that every reader can find an entry point into these issues through one of the contributions and that this will encourage further exploration Introduction

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