

## 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  $\vec{a} = \vec{i} + \vec{j} + \vec{k}, \vec{b} = \vec{i} - \vec{j} + 2\vec{k}$  and  $\vec{c} = x\vec{i} + (x - 2)\vec{j} - \vec{k}$ , 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 Paper Grade 12 Mid Year

**C Cleary**



## Maths Paper Grade 12 Mid Year:

*Mathematical Subjects* Fiona Walls, 2009-08-10 Teaching and learning mathematics is a political act in which children teachers parents and policy makers are made visible as subjects As they learn about mathematics children are also learning about themselves who they are who they might become We can choose to listen or not to what children have to say about learning mathematics Such choices constitute us in relations of power Mathematical know how is widely regarded as essential not only to the life chances of individuals but also to the health of communities and the economic well being of nations With the globalisation of education in an increasingly market oriented world mathematics has received intensified attention in the first decade of the twenty first century with a shifting emphasis on utilitarian aspects of mathematics This is reflected in the reconceptualisation of mathematical competence as mathematical literacy loosely conceived as those ways of thinking reasoning and working mathematically that allow us to engage effectively in everyday situations in many occupations and the cut and thrust of world economies as active empowered and participatory citizens It is no surprise then that mathematics has become one of the most politically charged subjects in primary school curricula worldwide We are experiencing an unprecedented proliferation of regional and national strategies to establish benchmarks raise standards enhance achievement close gaps and leave no child behind in mathematics education Industries have sprung up around the design administration and monitoring of standardised assessment to measure and compare children s mathematical achievement against identified benchmarks and each other

**Exceptionally Gifted Children** Miraca U. M. Gross, 2004 Miraca Gross award winning 20 year long study of 60 young people of IQ 160 continues in this revised and updated new edition

*Resources in Education*, 1987

**Handbook of Digital Resources in Mathematics Education** Birgit Pepin, Ghislaine Gueudet, Jeffrey Choppin, 2024-06-21 This handbook presents the state of the art scholarship on theoretical frames mathematical content learning environments pedagogic practices teacher professional learning and policy issues related to the development and use of digital resources in mathematics education With the advent of more and more open access digital resources teachers choose from the web what they see fit for their classroom students choose in the moment what they need for their projects and learning paths However educators and students often find it difficult to choose from the abundance of materials on offer as they are uncertain about their quality and beneficial use It is clear that at a time of bouleversement of the teaching learning processes it is crucial to understand the quality and the potentially transformative aspects of digital resources This book provides comprehensive analyses of and insights into the transformative aspects of digital resources

**Drum**, 2009-04

**The Educational year book. [5 issues].**, 1879

**Mathematics for Life and Work A Comparative Perspective on Mathematics to Inform Upper Secondary Reform in England** OECD, 2024-11-05 Engagement and performance in mathematics at the upper secondary level have been the concern of successive governments in England This report was commissioned as part of the country s policy reflections for transforming how maths is viewed

and experienced in England The report explores outcomes such as the share of students studying maths and performance across countries and how education systems internationally deliver mathematics in upper secondary It also examines factors shaping maths education including the expectations set by curricula student pathways cultural perceptions and the needs of the labour market and higher education Commonwealth Universities Yearbook ,1922 The Proceedings of the First Chancellor College Research Dissemination Conference ,2001 **The Education, Training and Functions of Technicians: Spain** Organisation for Economic Co-operation and Development. Directorate for Scientific Affairs, Organisation for Economic Co-operation and Development. Committee for Scientific and Technical Personnel, 1967 Femina ,2005 Enterprise ,2000-07 South African national bibliography ,1999 Classified list with author and title index Civil Engineering ,1999 **Money Matters** Karen Hurt, Debbie Budlender, 1998 This series published by the Institute for Democracy in South Africa IDASA is the first serious local attempt to examine the gender impact of key aspects of the budget in that country The series does not describe a separate budget for women rather it is an examination of all programmes policies and allocated funds in the national budget of the country for their impact on women Each book analyses the budget votes of the different government bodies and ministries The series serve as essential reading for anyone interested in the transformation of South African society and the understanding it offers of budget processes can be applied to similar deliberations in societies within Africa and around the world Content is based on chapters from The Women s Budget and The Second Women s Budget It serves as a summary and brief analysis Redressing Gender Inequalities in Education Nicola Swainson, 1996 The Times Index ,2011 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement *Annual Performance Plan* Mpumalanga (South Africa). Department of Education, 2016 *Universities Handbook* ,2014 *Training for Agricultural Development* Commonwealth Secretariat. Food Production & Rural Development Division, 1976 Directory of agricultural development training centres in the British Commonwealth lists national level international and regional level training programmes and institutions providing training related to rural development including forestry fishery development agriproduct processing irrigation land utilization and surveying etc

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