

# 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)

# **Maths Model Papers**

**Mark Chatterton** 

#### **Maths Model Papers:**

Sample Question Papers of Maths Class 10th MH Board Mahesh Prajapati, The Sample Question Papers of Maths Class 10th MH Board is a valuable resource designed to help students prepare for their examinations Featuring a variety of question formats including multiple choice short answer and long answer questions the papers mirror the actual exam pattern of the Maharashtra Board This collection aids in reinforcing key concepts improving time management skills and boosting confidence making it an essential tool for effective revision and practice for Class 10 students Maths (10 Most likely Question Papers with Solution) By Career Point Kota Career Point Kota, 2020-07-28 The CBSE has made certain changes in the assessment structure from the session 2019 20 onwards In the new scheme of examination CCE and term system has been replaced with the Internal Assessment Single Annual Exam by CBSE itself Single exam conducted by CBSE will carry 80 marks whereas 20 marks are left to the schools for internal assessment CBSE has issued detailed guidelines on how the internal marks will be divided among different activities From 2019 onwards there will be internal choices in board examinations with increased internal options in the question paper Considering this change now a student has to prepare accordingly for board examinations. The new assessment format brought with it excitement as well as anxiety And to help them prepare and excel in their CBSE board examination Career Point Kota has developed a series of 10 Most Likely Question Papers with Solutions The Key Features of Most Likely Question Papers with Solutions Series New OBJECTIVE TYPE question in each paper Syllabus of CBSE 2019 20 Based on the latest CBSE Syllabus Pattern Mind map of each chapter is given to visualize and help acquire a better understanding Important terms facts formulae and quick revision tips are given Covers questions asked in previous year board exams Toppers Answer Sheet as released by CBSE to understand the scoring technique We hope this book will gratify students need for the new CBSE pattern board exam and smoothen their path to success We wish to utilize the opportunity to place on record our special thanks to all the members of the Content Development team for their efforts to create this wonderful book **Educart CBSE Maths Standard Sample** Question Papers For Class 10 (For March 2020 Exam) Education Experts, 2019-10-20 NEW VERSION Available now based on the 20th September 2019 CBSE Sample Paper This Maths Standard book is extra special as it was prepared by a CBSE author who knows about CBSE markings official paper setting and CBSE Class 10th Exam patterns more than any other CBSE expert in the country We were lucky to have him prepare the papers of this Maths book It s been bought by more than 20 000 students since it came out in October 2019 and is our best seller already This Book Covers the following 10 Practice Papers solved 4 Self assessment papers CBSE September 2019 Sample Paper CBSE March 2019 Board Paper solved by topper CBSE 2018 Topper Answer Sheet Extra value items Added in this Book Utilising 15 minute reading time just before the exam by CBSE topper Structuring your Maths Exam 3 hours smartly by CBSE Markers 2020 marking scheme points value points underlined in each sample paper solution CBSE markers look for these key points in your answers to allot full

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