

**0193**

**A**

Total No. of Questions—24

Total No. of Printed Pages—4

Regd. No.

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Part III  
**MATHEMATICS, Paper - I(B)**  
(English Version)

Time : 3 Hours

[Max. Marks : 75]

Note :—This question paper consists of **THREE** sections A, B and C.

**SECTION A**

10×2=20

- I.** Very short answer type questions :  
(i) Attempt **ALL** questions.  
(ii) Each question carries **TWO** marks.
- 1.** Compute :

$$\lim_{x \rightarrow 0} \frac{a^x - 1}{b^x - 1}$$

- 2.** Find the value of  $p$ , if the straight lines  $3x + py - 1 = 0$ ,  $7x - 3y + 3 = 0$  are mutually perpendicular.
- 3.** If  $f(x) = \log(\tan e^x)$ , then find  $f'(x)$ .
- 4.** Find the ratio in which the  $xy$ -plane divides the line joining  $A(-2, 3, 4)$  and  $B(1, 2, 3)$ .
- 5.** Reduce the equation of the plane  $x + 2y - 3z - 6 = 0$  to the normal form.
- 6.** Evaluate :

$$\lim_{x \rightarrow 0} \frac{\log_e(1 + 5x)}{x}$$

# Maths Pape Cluster Papers March 2grade 1

**A Gutmann**



**Maths Pape Cluster Papers March 2grade 1:**

## Reviewing **Maths Pape Cluster Papers March 2grade 1**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Maths Pape Cluster Papers March 2grade 1**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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