

**BOARD OF INTERMEDIATE EDUCATION A.P.: HYDERABAD**  
**MODEL QUESTION PAPER w.e.f. 2012-13**  
**MATHEMATICS - IB**

(English Version)

**Time: 3 hours**

**Max. Marks: 75**

**Note:** This Question paper consists of three sections A, B and C

**SECTION - A**

**10 x 2 = 20 Marks**

**I. Very Short Answer Questions:**

**(i) Answer All Questions**

**(ii) Each Question carries Two marks.**

1. Find the value of  $x$ , if the slope of the line passing through  $(2, 5)$  and  $(x, 3)$  is 2.
2. Transform the equation  $x + y + 1 = 0$  into the normal form.
3. Show that the points  $(1, 2, 3)$ ,  $(2, 3, 1)$  and  $(3, 1, 2)$  form an equilateral Triangle.
4. Find the angle between the planes  $2x - y + z = 6$  and  $x + y + 2z = 7$ .
5. Show that  $\lim_{x \rightarrow 0^+} \left\{ \frac{2|x|}{x} + x + 1 \right\} = 3$ .
6. Find  $\lim_{x \rightarrow 0} \frac{e^{x+3} - e^3}{x}$ .
7. If  $f(x) = a^x e^{x^2}$  find  $f'(x)$  (where  $a > 0, a \neq 1$ ).
8. If  $y = \log[\sin(\log x)]$ , find  $\frac{dy}{dx}$ .
9. Find the approximate value of  $\sqrt[3]{65}$ .
10. Find the value of 'C' in Rolle's theorem for the function  $f(x) = x^2 + 4$  on  $[-3, 3]$ .

# Ib Exam Model Question Papers

**Léo Pomar**



## **Ib Exam Model Question Papers:**

## The Enigmatic Realm of **Ib Exam Model Question Papers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Ib Exam Model Question Papers** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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### Table of Contents **Ib Exam Model Question Papers**

1. Understanding the eBook **Ib Exam Model Question Papers**
  - The Rise of Digital Reading **Ib Exam Model Question Papers**
  - Advantages of eBooks Over Traditional Books
2. Identifying **Ib Exam Model Question Papers**
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an **Ib Exam Model Question Papers**
  - User-Friendly Interface
4. Exploring eBook Recommendations from **Ib Exam Model Question Papers**
  - Personalized Recommendations
  - **Ib Exam Model Question Papers** User Reviews and Ratings

- Ib Exam Model Question Papers and Bestseller Lists
- 5. Accessing Ib Exam Model Question Papers Free and Paid eBooks
  - Ib Exam Model Question Papers Public Domain eBooks
  - Ib Exam Model Question Papers eBook Subscription Services
  - Ib Exam Model Question Papers Budget-Friendly Options
- 6. Navigating Ib Exam Model Question Papers eBook Formats
  - ePub, PDF, MOBI, and More
  - Ib Exam Model Question Papers Compatibility with Devices
  - Ib Exam Model Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ib Exam Model Question Papers
  - Highlighting and Note-Taking Ib Exam Model Question Papers
  - Interactive Elements Ib Exam Model Question Papers
- 8. Staying Engaged with Ib Exam Model Question Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ib Exam Model Question Papers
- 9. Balancing eBooks and Physical Books Ib Exam Model Question Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ib Exam Model Question Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ib Exam Model Question Papers
  - Setting Reading Goals Ib Exam Model Question Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ib Exam Model Question Papers
  - Fact-Checking eBook Content of Ib Exam Model Question Papers
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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