

**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 Year Maths Paper

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## **Table of Contents Ib Year Maths Paper**

1. Understanding the eBook Ib Year Maths Paper
  - The Rise of Digital Reading Ib Year Maths Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Ib Year Maths Paper
  - 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 Year Maths Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Year Maths Paper
  - Personalized Recommendations
  - Ib Year Maths Paper User Reviews and Ratings
  - Ib Year Maths Paper and Bestseller Lists
5. Accessing Ib Year Maths Paper Free and Paid eBooks
  - Ib Year Maths Paper Public Domain eBooks
  - Ib Year Maths Paper eBook Subscription Services
  - Ib Year Maths Paper Budget-Friendly Options
6. Navigating Ib Year Maths Paper eBook Formats

- ePub, PDF, MOBI, and More
- Ib Year Maths Paper Compatibility with Devices
- Ib Year Maths Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ib Year Maths Paper
  - Highlighting and Note-Taking Ib Year Maths Paper
  - Interactive Elements Ib Year Maths Paper
- 8. Staying Engaged with Ib Year Maths Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ib Year Maths Paper
- 9. Balancing eBooks and Physical Books Ib Year Maths Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ib Year Maths Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ib Year Maths Paper
  - Setting Reading Goals Ib Year Maths Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ib Year Maths Paper
  - Fact-Checking eBook Content of Ib Year Maths Paper
  - 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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