

PART-III : MATHEMATICS

SECTION – 1 (Maximum marks : 24)

- This section contains **EIGHT (08)** questions.
- The answer to each question is a **NUMERICAL VALUE**.
- For each question, enter the correct numerical value of the answer using the mouse and the on-screen virtual numeric keypad in the place designated to enter the answer. If the numerical value has more than two decimal places, **truncate/round-off** the value to **TWO** decimal places.
- Answer to each question will be evaluated according to the following marking scheme:

Full Marks : +3 **ONLY** if the correct numerical value is entered;

Zero Marks : 0 In all other cases.

1. Considering only the principal values of the inverse trigonometric functions, the value of

$$\frac{3}{2} \cos^{-1} \sqrt{\frac{2}{2+\pi^2}} + \frac{1}{4} \sin^{-1} \frac{2\sqrt{2}\pi}{2+\pi^2} + \tan^{-1} \frac{\sqrt{2}}{\pi}$$

is _____.

Answer (= 2.36)

Sol.
$$\begin{aligned} & \frac{3}{2} \tan^{-1} \frac{\pi}{\sqrt{2}} + \frac{1}{4} \tan^{-1} \left(\frac{2\sqrt{2}\pi}{\pi^2 - 2} \right) + \tan^{-1} \frac{\sqrt{2}}{\pi} \\ &= \frac{\pi}{2} + \frac{1}{2} \tan^{-1} \frac{\pi}{\sqrt{2}} - \frac{1}{4} \tan^{-1} \left(\frac{2\sqrt{2}\pi}{2 - \pi^2} \right) \\ &= \frac{\pi}{2} + \frac{1}{2} \tan^{-1} \left(\frac{\pi}{\sqrt{2}} \right) - \frac{1}{4} \tan^{-1} \left(\frac{2 \cdot \left(\frac{\pi}{\sqrt{2}} \right)}{1 - \left(\frac{\pi}{\sqrt{2}} \right)^2} \right) \\ &= \frac{\pi}{2} + \frac{1}{2} \tan^{-1} \left(\frac{\pi}{\sqrt{2}} \right) - \frac{1}{4} \left(-\pi + 2 \tan^{-1} \left(\frac{\pi}{\sqrt{2}} \right) \right) \\ &= \frac{\pi}{2} + \frac{\pi}{4} = \frac{3\pi}{4} \\ &= 2.36 \end{aligned}$$

Mathematics Paper 1

G Orfield



Mathematics Paper 1 :

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Table of Contents Mathematics Paper 1

1. Understanding the eBook Mathematics Paper 1
 - The Rise of Digital Reading Mathematics Paper 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Paper 1
 - 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 Mathematics Paper 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Paper 1
 - Personalized Recommendations
 - Mathematics Paper 1 User Reviews and Ratings
 - Mathematics Paper 1 and Bestseller Lists
5. Accessing Mathematics Paper 1 Free and Paid eBooks

- Mathematics Paper 1 Public Domain eBooks
 - Mathematics Paper 1 eBook Subscription Services
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6. Navigating Mathematics Paper 1 eBook Formats
- ePub, PDF, MOBI, and More
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 - Mathematics Paper 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Mathematics Paper 1
 - Highlighting and Note-Taking Mathematics Paper 1
 - Interactive Elements Mathematics Paper 1
8. Staying Engaged with Mathematics Paper 1
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Paper 1
9. Balancing eBooks and Physical Books Mathematics Paper 1
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Paper 1
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics Paper 1
- Setting Reading Goals Mathematics Paper 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics Paper 1
- Fact-Checking eBook Content of Mathematics Paper 1
 - 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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