

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)

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

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B L Sharma



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JEE Advanced 2017 Question by Question Analysis Disha Experts, JEE Advanced 2017 Question by Question Analysis is an essential component for every aspirant of JEE Advanced 2018 The Analysis lucidly presents the Most Important Concepts focus of the 2017 examination and the level of Difficulty of each question Thus making you understand the importance of each chapter or concept The book further provides you the complete detailed solution of JEE Advanced 2017 Table of Contents Part I PHYSICS JEE Advanced 2017 Question Paper 1 Hints and Solutions Paper 1 Analysis of JEE Advanced 2017 Physics Paper 1 JEE Advanced 2017 Question Paper 2 Hints and Solutions Paper 2 Analysis of JEE ADVANCED 2017 Physics Paper 2 Part II CHEMISTRY JEE Advanced 2017 Question Paper 1 Hints and Solutions Paper 1 Analysis of JEE ADVANCED 2017 Chemistry Paper 1 JEE Advanced 2017 Question Paper 2 Hints and Solutions Paper 2 Analysis of JEE ADVANCED 2017 Chemistry Paper 2 Part III MATHEMATICS JEE Advanced 2017 Question Paper 1 Hints and Solutions Paper 1 Analysis of JEE ADVANCED 2017 Mathematics Paper 1 JEE Advanced 2017 Question Paper 2 Hints and Solutions Paper 2 Analysis of JEE ADVANCED 2017 Mathematics Paper 2 *Oswaal JEE Advance 10 Mock Test Papers (Paper-1 & Paper-2) Physics, Chemistry, Mathematics (For 2023 Exam)* Oswaal Editorial Board, 2023-02-27 Benefits of book which distinguish it from others 100% Updated With 2022 Paper 1 2 Fully Solved Extensive Practice With 10 Sample Question Papers 100% Exam Readiness With highly Probable SQPs with a success rate of more than 87% in 2022 Crisp Revision With Mind Maps Mnemonics Appendix Valuable Exam Insights With Subjective Trend Analysis *Oswaal JEE Advance 10 Mock Test Papers (Paper-1 & Paper-2) Physics, Chemistry, Mathematics (For 2024 Exam)* Oswaal Editorial Board, 2023-07-01 Description of the product 100% Updated with Fully Solved 2023 Papers 1 2 Extensive Practice with 1200 Practice Questions of Paper 1 Paper 2 Crisp Revision with Smart Mind Maps Mnemonics Appendix Valuable Exam Insights with Expert Tips Tricks and Shortcuts to Crack JEE Advanced Concept Clarity with Extensive Explanations of 10 Mock Test Papers 100% Exam Readiness with Chapter wise Analysis 2018 2023 , **42 Years (1978-2019) JEE Advanced (IIT-JEE) + 18 yrs JEE Main (2002-2019) Topic-wise Solved Paper Chemistry 15th Edition** Dr. O. P. Agarwal, Er. Deepak Agarwal, 2019-06-13 The book 42 Years IIT JEE Advanced 18 yrs JEE Main Topic wise Solved Paper CHEMISTRY is the first integrated book which contains topic wise collection of past JEE Advanced including 1978 2012 IIT JEE 2013 19 JEE Advanced questions from 1978 to 2019 and past JEE Main including 2002 2012 AIEEE 2013 19 JEE Main questions from 2002 to 2019 The book provides 2 Sets of JEE Main 2019 1 of each of the 2 Phases Paper 1 2 of JEE ADVANCED 2019 The book is divided into 23 chapters The flow of chapters has been aligned as per the NCERT books Each chapter divides the questions into 9 categories as per the NEW IIT pattern Fill in the Blanks True False MCQ 1 correct MCQ more than 1 correct Passage Based Assertion Reason Multiple Matching Integer Answer and Subjective Questions All the Screening and Mains papers of IIT JEE have been incorporated in the book Detailed solution of each and every question has been provided for 100%

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