

SECTION 1 (Maximum Marks: 12)

- This section contains **FOUR (04)** questions.
- Each question has **FOUR** options (A), (B), (C) and (D). **ONLY ONE** of these four options is the correct answer.
- For each question, choose the option corresponding to the correct answer.
- Answer to each question will be evaluated according to the following marking scheme:
Full Marks : +3 If **ONLY** the correct option is chosen;
Zero Marks : 0 If none of the options is chosen (i.e. the question is unanswered);
Negative Marks : -1 In all other cases.

- Q.1 Let $f : [1, \infty) \rightarrow \mathbb{R}$ be a differentiable function such that $f(1) = \frac{1}{3}$ and
- $$3 \int_1^x f(t) dt = x f(x) - \frac{x^2}{3}, \quad x \in [1, \infty).$$
- Let e denote the base of the natural logarithm. Then the value of $f(e)$ is

(A) $\frac{e^2 + 4}{3}$ (B) $\frac{\log_2 4 + e}{3}$ (C) $\frac{4e^2}{3}$ (D) $\frac{e^2 - 4}{3}$

Answer: C

- Q.2 Consider an experiment of tossing a coin repeatedly until the outcomes of two consecutive tosses are same. If the probability of a random toss resulting in head is $\frac{1}{3}$, then the probability that the experiment stops with head is

(A) $\frac{1}{3}$ (B) $\frac{5}{21}$ (C) $\frac{4}{21}$ (D) $\frac{2}{7}$

Answer: B

- Q.3 For any $y \in \mathbb{R}$, let $\cot^{-1}(y) \in (0, \pi)$ and $\tan^{-1}(y) \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$. Then the sum of all the solutions of the equation $\tan^{-1}\left(\frac{6y}{9-y^2}\right) + \cot^{-1}\left(\frac{9-y^2}{6y}\right) = \frac{2\pi}{3}$ for $0 < |y| < 3$, is equal to

(A) $2\sqrt{3} - 3$ (B) $3 - 2\sqrt{3}$ (C) $4\sqrt{3} - 6$ (D) $6 - 4\sqrt{3}$

Answer: C

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Table of Contents Answer Keys Of Jeemains 2014 Paper2 Code K

1. Understanding the eBook Answer Keys Of Jeemains 2014 Paper2 Code K
 - The Rise of Digital Reading Answer Keys Of Jeemains 2014 Paper2 Code K
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Keys Of Jeemains 2014 Paper2 Code K
 - 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 Answer Keys Of Jeemains 2014 Paper2 Code K
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Keys Of Jeemains 2014 Paper2 Code K
 - Personalized Recommendations
 - Answer Keys Of Jeemains 2014 Paper2 Code K User Reviews and Ratings

- Answer Keys Of Jeemains 2014 Paper2 Code K and Bestseller Lists
- 5. Accessing Answer Keys Of Jeemains 2014 Paper2 Code K Free and Paid eBooks
 - Answer Keys Of Jeemains 2014 Paper2 Code K Public Domain eBooks
 - Answer Keys Of Jeemains 2014 Paper2 Code K eBook Subscription Services
 - Answer Keys Of Jeemains 2014 Paper2 Code K Budget-Friendly Options
- 6. Navigating Answer Keys Of Jeemains 2014 Paper2 Code K eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Keys Of Jeemains 2014 Paper2 Code K Compatibility with Devices
 - Answer Keys Of Jeemains 2014 Paper2 Code K Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Keys Of Jeemains 2014 Paper2 Code K
 - Highlighting and Note-Taking Answer Keys Of Jeemains 2014 Paper2 Code K
 - Interactive Elements Answer Keys Of Jeemains 2014 Paper2 Code K
- 8. Staying Engaged with Answer Keys Of Jeemains 2014 Paper2 Code K
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Keys Of Jeemains 2014 Paper2 Code K
- 9. Balancing eBooks and Physical Books Answer Keys Of Jeemains 2014 Paper2 Code K
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Keys Of Jeemains 2014 Paper2 Code K
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Keys Of Jeemains 2014 Paper2 Code K
 - Setting Reading Goals Answer Keys Of Jeemains 2014 Paper2 Code K
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Keys Of Jeemains 2014 Paper2 Code K
 - Fact-Checking eBook Content of Answer Keys Of Jeemains 2014 Paper2 Code K
 - 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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