

NOTE: Attempt FIVE Questions in All. THREE Questions from Section "A" and TWO Questions from Section "B". Calculator is allowed.

SECTION - A

- Q No. 1:**
- (a) Evaluate $\lim_{n \rightarrow \infty} \left(1 + \frac{1}{n}\right)^n$ where n tends to infinity through positive integral values only.
- (b) State and prove Leibniz theorem. Find n th derivative of $e^x \ln x$ (20 Marks)

- Q No. 2:**
- a) Find (i) $\lim_{x \rightarrow 0} (\cot x)^{x \sin 2x}$
- (ii) $\lim_{x \rightarrow \frac{\pi}{2}} \left(\frac{\tan x}{\tan 3x}\right)$
- b) Evaluate (i) $\int \frac{dx}{\sqrt{x-x^3}}$ (ii) $\int_{-3}^3 |x| dx$

(20 Marks)

- Q No. 3:**
- a) Evaluate $\int_0^1 \int_0^x (x^2 + 4xy) dy dx$
- b) Evaluate $\iiint_s 3(x^2 + y^2 + z^2) dv$

Where s is bounded by the planes $x = 1, x = 3, y = -1, y = 1, z = 2$ and $z = 4$.

(20 Marks)

- Q No. 4:** Solve the initial value problems:-

- a) $(x^2 + 3y^2)dx - 2xy dy = 0, \quad y(2) = 6$
- b) $(x^2 + 1) \frac{dy}{dx} + 4xy = x, \quad y(2) = 1$

(20 Marks)

- Q No. 5:**
- a) A body of mass 2 slugs is dropped with no initial velocity and encounters an air resistance that is proportional to the square of its velocity. Find an expression for the velocity of the body at any time.

- (b) Approximate $\int_0^2 \frac{1}{\sqrt{x^2+1}} dx$ with $n = 4$

By using rules (i) Trapezoidal (ii) Simpson's

(20 Marks)

P.T.O

Grade 1mathematics Past Papers

Terry C. Jones



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Table of Contents Grade 1mathematics Past Papers

1. Understanding the eBook Grade 1mathematics Past Papers
 - The Rise of Digital Reading Grade 1mathematics Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1mathematics Past 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 Grade 1mathematics Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1mathematics Past Papers
 - Personalized Recommendations
 - Grade 1mathematics Past Papers User Reviews and Ratings
 - Grade 1mathematics Past Papers and Bestseller Lists
5. Accessing Grade 1mathematics Past Papers Free and Paid eBooks
 - Grade 1mathematics Past Papers Public Domain eBooks
 - Grade 1mathematics Past Papers eBook Subscription Services
 - Grade 1mathematics Past Papers Budget-Friendly Options

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