PROVINCIAL MANAGEMENT SERVICE, ETC - 2016

SUBJECT: MATHEMATICS (PAPER-J)

TIME ALLOWED: THREE HOURS

MAXIMUM MARKS: 100

NOTE: Attempt Five Ouestions in Ail. THREE Questions from Section "A"

SECTION - A

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

(20 Marks)

- Q No. 2: a) Find (i) $\lim_{x\to 0} (\cot x)^{\sin 2x}$
 - (ii) $\lim_{x \to \frac{\pi}{2}(\frac{\tan x}{\tan 3x})}$
 - b) Evaluate (i) $\int \frac{dx}{\sqrt{x-x^{\frac{1}{3}}}}$ (ii) $\int_{-3}^{3} |x| dx$

(20 Marks)

(20 Marks)

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

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

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

Q No. 5:

a)
$$(x^2 + 3y^2)dx - 2xy dy = 0$$
, $y(2) = 6$

b)
$$(x^2 + 1)\frac{dy}{dx} + 4xy = x$$
, $y(2) = 1$

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) Sampson's

(20 Marks)

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Clifford Lane

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- 1. Understanding the eBook Gcse Maths 4th March 2013 Past Paper
 - The Rise of Digital Reading Gose Maths 4th March 2013 Past Paper
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Gcse Maths 4th March 2013 Past 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 Gcse Maths 4th March 2013 Past Paper
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Gcse Maths 4th March 2013 Past Paper
 - Personalized Recommendations
 - o Gcse Maths 4th March 2013 Past Paper User Reviews and Ratings
 - Gcse Maths 4th March 2013 Past Paper and Bestseller Lists
- 5. Accessing Gose Maths 4th March 2013 Past Paper Free and Paid eBooks

- Gcse Maths 4th March 2013 Past Paper Public Domain eBooks
- Gcse Maths 4th March 2013 Past Paper eBook Subscription Services
- Gcse Maths 4th March 2013 Past Paper Budget-Friendly Options
- 6. Navigating Gcse Maths 4th March 2013 Past Paper eBook Formats
 - o ePub, PDF, MOBI, and More
 - Gcse Maths 4th March 2013 Past Paper Compatibility with Devices
 - Gcse Maths 4th March 2013 Past Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gcse Maths 4th March 2013 Past Paper
 - Highlighting and Note-Taking Gcse Maths 4th March 2013 Past Paper
 - o Interactive Elements Gose Maths 4th March 2013 Past Paper
- 8. Staying Engaged with Gcse Maths 4th March 2013 Past Paper
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - o Following Authors and Publishers Gose Maths 4th March 2013 Past Paper
- 9. Balancing eBooks and Physical Books Gcse Maths 4th March 2013 Past Paper
 - Benefits of a Digital Library
 - $\circ\,$ Creating a Diverse Reading Collection Gcse Maths 4th March 2013 Past Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gcse Maths 4th March 2013 Past Paper
 - Setting Reading Goals Gcse Maths 4th March 2013 Past Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gcse Maths 4th March 2013 Past Paper
 - Fact-Checking eBook Content of Gcse Maths 4th March 2013 Past 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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