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 $\lim_{n \to \infty} \left(1 + \frac{1}{n}\right)^n$
 - 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 $\iiint_v 3(x^2 + y^2 + z^2)dv$

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:-

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

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

Q No. 5:

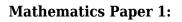
a) A body of mass 2 slugs is dropped with no initial velocity and encounters an air resistance that is proportional to the square of its velocity. Find an expression for the velocity of the body at any time.

(b) Approximate
$$\int_0^2 \frac{1}{\sqrt{(x^2+1)}} dx$$
 with $n=4$
By using rules (i) Trapezoidal (ii) Sampson's

(20 Marks)

Mathematics Paper 1

Michael Hoelscher



Mathematics Paper 1 Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Mathematics Paper 1**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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