

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) $\lim_{x \rightarrow 0} (\cot x)^{\sin 2x}$
- (ii) $\lim_{x \rightarrow \frac{\pi}{2}} \frac{\tan x}{\tan 3x}$
- 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)

Mathematics Paper 1

Ying-Ying Zheng



Mathematics Paper 1:

Unveiling the Magic of Words: A Overview of "**Mathematics Paper 1**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Mathematics Paper 1**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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