SUBJECT: MATHEMATICS (PAPER-I)

TIME ALLOWED: THREE HOURS

MAXIMUM MARKS: 100

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 $\lim\limits_{n \to \infty} \left(1 + \frac{1}{n}\right)^n$
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) $\lim\limits_{x \to 0}(\cot x)^{\sin 2x}$

(ii) $\lim\limits_{x \to \frac{\pi}{2}}\left(\frac{\tan x}{\tan 3x}\right)$

b)   Evaluate   (i) $\int \frac{dx}{\sqrt{x - x^{\frac{2}{3}}}}$ (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 $\int \int \int_s 3(x^2 + y^2 + z^2)\, dv$

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

(20 Marks)

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

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

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

(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) Sampson's

(20 Marks)

P.T.O

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