

- Q. 5. (A) Attempt any TWO of the following:** [6]
- (i) Examine the continuity of the following function at given point :
- $$f(x) = \frac{\log x - \log 8}{x - 8}, \quad \text{for } x \neq 8$$
- $$= 8, \quad \text{for } x = 8, \text{ at } x = 8$$
- (3)

- (ii) If $x = \phi(t)$ is differentiable function of 't', then prove that
- $$\int f(x) dx = \int f[\phi(t)] \phi'(t) dt.$$
- (3)

- (iii) Solve : $3e^x \tan y dx + (1 + e^x) \sec^2 y dy = 0$

Also, find the particular solution when $x = 0$ and $y = \pi$. (3)

- Q. 5. (B) Attempt any TWO of the following:** [8]

- (i) A point source of light is hung 30 feet directly above a straight horizontal path on which a man of 6 feet in height is walking. How fast will the man's shadow lengthen and how fast will the tip of shadow move when he is walking away from the light at the rate of 100 ft/min. (4)

- (ii) Evaluate : $\int \frac{\log x}{(1 + \log x)^2} dx$

- (iii) If $x = f(t)$, $y = g(t)$ are differentiable functions of parameter 't' then prove that y is a differentiable function of 'x' and $\frac{dy}{dx} = \frac{\frac{dy}{dt}}{\frac{dx}{dt}}, \frac{dx}{dt} \neq 0$.

Hence, find $\frac{dy}{dx}$ if $x = a \cos t$, $y = a \sin t$. (4)

- Q. 6. (A) Attempt any TWO of the following:** [6]

- (i) Show that the function defined by $f(x) = |\cos x|$ is continuous function. (3)

- (ii) Solve the differential equation $\frac{dy}{dx} = \frac{y + \sqrt{x^2 + y^2}}{x}$. (3)

- (iii) Given $X \sim B(n, p)$. If $n = 20$, $E(X) = 10$, find p , Var. (X) and S.D. (X). (3)

- Q. 6. (B) Attempt any TWO of the following:** [8]

- (i) A bakerman sells 5 types of cakes. Profits due to the sale of each type of cake is respectively ₹ 3, ₹ 2.5, ₹ 2, ₹ 1.5, ₹ 1. The demands for these cakes are 10%, 5%, 25%, 45% and 15% respectively. What is the expected profit per cake? (4)

- (ii) Verify Lagrange's mean value theorem for the function $f(x) = x + \frac{1}{x}$, $x \in [1, 3]$. (4)

- (iii) Prove that $\int_a^b f(x) dx = \int_a^b f(a + b - x) dx$. Hence evaluate : $\int_a^b \frac{f(x)}{f(x) + f(a + b - x)} dx$. (4)

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**SimonMary Asese Ahiokhai, Matt
Daily, Layla Garrigues**



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