

06 - DIFFERENTIAL CALCULUS
(Answers at the end of all questions)

Page 2

(6) Let f be differentiable for all x . If $f(1) = -2$ and $f'(x) \geq 2$ for $x \in [1, 6]$, then

- (a) $f(6) \geq 8$ (b) $f(6) < 8$ (c) $f(6) < 5$ (d) $f(6) = 5$ [AIEEE 2005]

(7) If f is a real valued differentiable function satisfying $|f(x) - f(y)| \leq (x - y)^2$, $x, y \in \mathbb{R}$ and $f(0) = 0$, then $f(1)$ equals

- (a) -1 (b) 0 (c) 2 (d) 1 [AIEEE 2005]

(8) A spherical iron ball 10 cm in radius is coated with a layer of ice of uniform thickness that melts at a rate of $50 \text{ cm}^3/\text{min}$. When the thickness of ice is 5 cm, then the rate at which thickness of ice decreases in cm/min is

- (a) $\frac{1}{36\pi}$ (b) $\frac{1}{18\pi}$ (c) $\frac{1}{54\pi}$ (d) $\frac{5}{6\pi}$ [AIEEE 2005]

(9) Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be a differentiable function having $f(2) = 6$, $f'(2) = \frac{1}{48}$. Then

- $\lim_{x \rightarrow 2} \int_6^{f(x)} \frac{4t^3}{x-2} dt$ equals
(a) 24 (b) 36 (c) 12 (d) 18 [AIEEE 2005]

(10) If the equation $a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x = 0$, $a_1 \neq 0$, $n \geq 2$ has a positive root $x = \alpha$, then the equation $n a_n x^{n-1} + (n-1) a_{n-1} x^{n-2} + \dots + a_1 = 0$ has positive root which is

- (a) greater than α (b) smaller than α
(c) greater than or equal to α (d) equal to α [AIEEE 2005]

(11) If $\lim_{x \rightarrow \infty} \left(1 + \frac{a}{x} + \frac{b}{x^2} \right)^{2x} = e^2$, then the values of a and b are

- (a) $a \in \mathbb{R}$, $b \in \mathbb{R}$ (b) $a = 1$, $b \in \mathbb{R}$
(c) $a \in \mathbb{R}$, $b = 2$ (d) $a = 1$, $b = 2$ [AIEEE 2004]

110013 Calculas Mcq

Dinkar Malwane



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