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# Mathematics

Time: 2 hours

**Note:** Question number 1 to 12 carries (3, -1) **marks** each, 13 to 20 carries (5, -1) **marks** each, 21 to 32 carries (5, -2) **marks** each and 33 to 40 carries (6, 0) **marks** each.

## Section – A (Single Option Correct)

1. For  $x > 0$ ,  $\lim_{x \rightarrow 0} \left( (\sin x)^{1/x} + (1/x)^{\sin x} \right)$  is  
(A) 0 (B) -1  
(C) 1 (D) 2

**Sol.** (C)  
$$\lim_{x \rightarrow 0} \left( (\sin x)^{1/x} + \left( \frac{1}{x} \right)^{\sin x} \right)$$
$$0 + e^{\lim_{x \rightarrow 0} \sin x \ln \left( \frac{1}{x} \right)} = 1 \text{ (using L' Hospital's rule).}$$

2.  $\int \frac{x^2-1}{x^3 \sqrt{2x^4-2x^2+1}} dx$  is equal to  
(A)  $\frac{\sqrt{2x^4-2x^2+1}}{x^2} + c$  (B)  $\frac{\sqrt{2x^4-2x^2+1}}{x^3} + c$   
(C)  $\frac{\sqrt{2x^4-2x^2+1}}{x} + c$  (D)  $\frac{\sqrt{2x^4-2x^2+1}}{2x^3} + c$

**Sol.** (D)  
$$\int \frac{\left( \frac{1}{x^3} - \frac{1}{x^3} \right) dx}{\sqrt{2 - \frac{2}{x^2} + \frac{1}{x^4}}}$$

Let  $2 - \frac{2}{x^2} + \frac{1}{x^4} = z \Rightarrow \frac{1}{4} \int \frac{dz}{\sqrt{z}}$   
$$\Rightarrow \frac{1}{2} \times \sqrt{z} + c \Rightarrow \frac{1}{2} \sqrt{2 - \frac{2}{x^2} + \frac{1}{x^4}} + c.$$

3. Given an isosceles triangle, whose one angle is  $120^\circ$  and radius of its incircle =  $\sqrt{3}$ . Then the area of the triangle in sq. units is  
(A)  $7 + 12\sqrt{3}$  (B)  $12 - 7\sqrt{3}$   
(C)  $12 + 7\sqrt{3}$  (D)  $4\pi$

**Sol.** (C)  
$$\Delta = \frac{\sqrt{3}}{4} b^2 \quad \dots(1)$$



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