

CUET ADMISSION TEST 2014-2015

[N.B: * চিহ্ন দেওয়া প্রশ্নগুলো পুরাতন সিলেবাসের।]

Mathematics (MCQ)

01. ABC ত্রিভুজের ক্ষেত্রে $a^4 + b^4 + c^4 = 2c^2(a^2 + b^2)$ হলে $\cos C$ এর মান হবে-

- (a) $\frac{1}{\sqrt{2}}$ (b) $\pm \frac{1}{\sqrt{2}}$ (c) $\pm \frac{\sqrt{3}}{2}$ (d) None of them

Solve: (b); $a^4 + b^4 + c^4 = 2c^2(a^2 + b^2)$

$$\Rightarrow (a^2)^2 + (b^2)^2 + (-c^2)^2 + 2a^2(-c^2) + 2b^2(-c^2) + 2a^2b^2 = 2a^2b^2$$

$$\Rightarrow (a^2 + b^2 - c^2)^2 = 2a^2b^2 \Rightarrow a^2 + b^2 - c^2 = \pm \sqrt{2}ab \Rightarrow \frac{a^2 + b^2 - c^2}{2ab} = \pm \frac{1}{\sqrt{2}} \therefore \cos C = \pm \frac{1}{\sqrt{2}}$$

02. a এর কোন মানের জন্য $\cos A \sin\left(A - \frac{\pi}{6}\right)$ এর মান বৃহত্তম হবে?

- (a) $\frac{\pi}{2}$ (b) $\frac{\pi}{3}$ (c) $\frac{\pi}{4}$ (d) None of them

$$\text{Solve: (b); } \sin\left(A - \frac{\pi}{6}\right) \cos A = \frac{1}{2} \left\{ 2 \cos A \sin\left(A - \frac{\pi}{6}\right) \right\} = \frac{1}{2} \left\{ \sin\left(2A - \frac{\pi}{6}\right) - \sin\left(\frac{\pi}{6}\right) \right\} = \frac{1}{2} \sin\left(2A - \frac{\pi}{6}\right) - \frac{1}{4}$$

$$\text{For maximum value, } \sin\left(2A - \frac{\pi}{6}\right) = 1 \therefore 2A - \frac{\pi}{6} = \frac{\pi}{2} \therefore 2A = \frac{2\pi}{3} \therefore A = \frac{\pi}{3}$$

03. যদি $\sin \alpha + \sin \beta = a$ এবং $\cos \alpha + \cos \beta = b$ হয়, তাহলে $\cos(\alpha - \beta)$ এর মান কত?

- (a) $\frac{a^2 + b^2 + 2}{2}$ (b) $\frac{a^2 + b^2 - 2}{2}$ (c) $\frac{a^2 - b^2 - 2}{2}$ (d) $\frac{a^2 - b^2 + 2}{2}$

$$\text{Solve: (b); } \sin \alpha + \sin \beta = a \therefore \sin^2 \alpha + \sin^2 \beta + 2 \sin \alpha \sin \beta = a^2 \dots \dots \dots (i)$$

$$\cos \alpha + \cos \beta = b \therefore \cos^2 \alpha + \cos^2 \beta + 2 \cos \alpha \cos \beta = b^2 \dots \dots \dots (ii)$$

$$(i) + (ii) \Rightarrow (\sin^2 \alpha + \cos^2 \beta) + \sin^2 \beta + \cos^2 \beta + 2(\cos \alpha \cos \beta + \sin \alpha \sin \beta) = a^2 + b^2$$

$$\Rightarrow 2 + 2 \cos(\alpha - \beta) = a^2 + b^2 \therefore \cos(\alpha - \beta) = \frac{a^2 + b^2 - 2}{2}$$

04. $\lim_{x \rightarrow \frac{\pi}{2}} \left(\frac{1 + \cos x}{\sin x} \right)$ এর মান হল-

- (a) 0 (b) 1 (c) -1 (d) None of them

$$\text{Solve: (a); } \lim_{x \rightarrow \frac{\pi}{2}} \frac{1 + \cos x}{\sin x} = \lim_{x \rightarrow \frac{\pi}{2}} \frac{2 \cos^2 \frac{x}{2}}{2 \sin \frac{x}{2} \cos \frac{x}{2}} = \lim_{x \rightarrow \frac{\pi}{2}} \cot \frac{x}{2} = \cot \frac{\pi}{4} = 0$$

05. যদি $x = \tan^{-1} \sqrt{\frac{1 - \cos \theta}{1 + \cos \theta}}$ এবং $y = \tan^{-1} \frac{\cos \theta}{1 + \sin \theta}$ হয় তাহলে $\frac{dy}{dx}$ এর মান কত?

- (a) -1 (b) 1 (c) ± 1 (d) 0

$$\text{Solve: (a); } x = \tan^{-1} \sqrt{\frac{1 - \cos \theta}{1 + \cos \theta}} = \tan^{-1} \sqrt{\frac{2 \sin^2 \frac{\theta}{2}}{2 \cos^2 \frac{\theta}{2}}} = \tan^{-1} \left(\tan \frac{\theta}{2} \right) = \frac{\theta}{2}$$

$$y = \tan^{-1} \frac{\cos \theta}{1 + \sin \theta} = \tan^{-1} \frac{\cos^2 \frac{\theta}{2} - \sin^2 \frac{\theta}{2}}{\cos^2 \frac{\theta}{2} + \sin^2 \frac{\theta}{2} + 2 \sin \frac{\theta}{2} \cos \frac{\theta}{2}} = \tan^{-1} \frac{\cos \frac{\theta}{2} - \sin \frac{\theta}{2}}{\cos \frac{\theta}{2} + \sin \frac{\theta}{2}} = \tan^{-1} \frac{1 - \tan \frac{\theta}{2}}{1 + \tan \frac{\theta}{2}} = \frac{\pi}{4} - \frac{\theta}{2} = \frac{\pi}{4} - x$$

$$\therefore \frac{dy}{dx} = -1$$

06. $\int_0^1 2x^2 e^{-x^2} dx$ এর মান নির্ণয় কর।

- (a) $-\frac{2}{e} + 1$ (b) $-\frac{2}{e}$ (c) $-\frac{1}{e} + 1$ (d) None of them

$$\text{Solve: (a); Let, } x^2 = z \therefore 2x dx = dz \therefore \int 2x^2 e^{-x^2} dx = \int z e^{-z} dz = z \int e^{-z} dz - \int \left(\frac{d}{dz} (z) \int e^{-z} dz \right) dz$$

$$= -ze^{-z} - \int (-e^{-z}) dz = -ze^{-z} - e^{-z} + c = -(z + 1)e^{-z}$$

$$\therefore \int_0^1 z e^{-z} dz = -[(z + 1)e^{-z}]_0^1 = (2e^{-1} - 1) = 1 - \frac{2}{e} = -\frac{2}{e} + 1$$

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