BUET Admission Test 2014-2015

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

Mathematics (Written)

01. $\vec{B} = 2\hat{i} - 4\hat{j} + 3\hat{k}$ ভেক্টর এর লম্ব দিক বরাবর $\vec{A} = -\hat{i} - \hat{j} + 2\hat{k}$ ভেক্টর এর অংশক $\vec{W}$ নির্ণয় কর। অতঃপর $\vec{W}$ ভেক্টরের উপর $\vec{A}$ ভেক্টরের অভিক্ষেপ নির্ণয় কর।

Solve: $\vec{B}$ বরাবর $\vec{A}$ এর অভিক্ষেপ $= A\cos\theta = \frac{\vec{A}.\vec{B}}{|B|} ; A_x = \frac{9}{\sqrt{29}}$

Now, $A_x^2 + A_y^2 = A^2 \Rightarrow A_y = \sqrt{A^2 - A_x^2} = \sqrt{\frac{110}{29}}$

আবার, $\vec{A} \times \vec{B} = \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ -1 & -1 & 2 \\ 2 & -4 & 3 \end{vmatrix} = \hat{i}(-3+8) - \hat{j}(-3-4) + \hat{k}(4+2) = 5\hat{i} + 7\hat{j} + 6\hat{k}$

$\therefore$ একক ভেক্টর $= \frac{1}{\sqrt{110}}(5\hat{i} + 7\hat{j} + 6\hat{k})$ $\therefore \vec{W} = \sqrt{\frac{110}{29}} \times \frac{1}{\sqrt{110}} \times (5\hat{i} + 7\hat{j} + 6\hat{k}) = \frac{1}{\sqrt{29}}(5\hat{i} + 7\hat{j} + 6\hat{k})$ (Ans.)

অভিক্ষেপ $= A\cos\theta = \frac{\vec{A}.\vec{W}}{|W|} = \frac{0}{|W|} = 0$ (Ans.)

02. মনে করি R বাস্তব সংখ্যার সেট; $A, B \subset R$; $f: A \to B$ যেখানে $f(x) = \frac{3x+2}{7x-3}$ ফাংশনটির ডোমেন ও রেঞ্জ নির্ণয় কর এবং দেখাও যে ফাংশনটি এক-এক ও সার্বিক। f^{-1} ও নির্ণয় কর।

Solve: Given, $f(x) = \frac{3x+2}{7x-3}$; $x = \frac{3}{7}$ হলে, $f(x) =$ undetermined $\therefore$ ডোমেন $= R\backslash\left\{\frac{3}{7}\right\}$ (Ans.)

আবার, $f(x) = y = \frac{3x+2}{7x-3} \Rightarrow 7xy - 3y = 3x + 2 \Rightarrow x(7y-3) = 3y + 2 \Rightarrow x = \frac{3y+2}{7y-3}$ .....(i)

$y = \frac{3}{7}$ হলে, $x =$ undetermined $\therefore$ রেঞ্জ $= R\backslash\left\{\frac{3}{7}\right\}$ (Ans.)

এখন, ডোমেন, $x_1, x_2 \in A$ এর জন্য $f(x_1) = f(x_2)$ হবে যদি ও কেবল যদি, $\frac{3x_1+2}{7x_1-3} = \frac{3x_2+2}{7x_2-3}$ বা, $x_1 = x_2$ হয়

$\therefore$ ফাংশনটি এক-এক ও সার্বিক। যেহেতু প্রতিটি ডোমেনের জন্য একটি ভিন্ন রেঞ্জ আছে।

(i) হতে, $x = \frac{3y+2}{7y-3} \Rightarrow f^{-1}(y) = \frac{3y+2}{7y-3} \Rightarrow f^{-1}(x) = \frac{3x+2}{7x-3}$ (Ans.)

03. যদি $x^3 - px^2 - qx - r = 0$ সমীকরণের মূলগুলি a, b, c হয় তবে $a^3 + b^3 + c^3$ এর মান নির্ণয় কর।

Solve: $x^3 - px^2 - qx - r = 0$; $a + b + c = p$; $ab + bc + ca = -q$; $abc = r$

Now, $a^3 + b^3 + c^3 = (a+b+c)\{(a+b+c)^2 - 3(ab+bc+ca)\} + 3abc$

$= p\{(p)^2 - 3(-q)\} + 3r = p(p^2 + 3q) + 3r$ (Ans.)

04. তিনটি একই রকমের বাক্সের প্রতিটিতে দুইটি একই রকমের ড্রয়ার আছে। প্রথম বাক্সের দুইটি ড্রয়ারের প্রতিটিতে একটি করে পেন্সিল, দ্বিতীয় বাক্সের প্রতি ড্রয়ারে একটি করে কলম এবং তৃতীয় বাক্সের একটি ড্রয়ারে একটি পেন্সিল ও অন্য একটি ড্রয়ারে একটি কলম আছে। লটারী করে একটি বাক্স নির্বাচন করা হল ও নির্বাচিত বাক্সের একটি ড্রয়ার খুলে পেন্সিল পাওয়া গেল। পেন্সিলটি যে প্রথম বাক্সের তার সম্ভাব্যতা নির্ণয় কর।

Solve: $P = \frac{\frac{1}{3}\times\frac{1}{2}}{\frac{1}{3}\left(\frac{1}{2}+\frac{1}{2}+\frac{1}{2}\right)} = \frac{2}{3}$ (Ans.)

05.* পাশের ধারাটির n-তম পদ পর্যন্ত যোগফল নির্ণয় কর: $\frac{14}{1.4.2.5} + \frac{68}{4.7.5.8} + \frac{158}{7.10.8.11} + \cdots\cdots$

Solve: $u_n = \frac{18n^2-4}{(9n^2+3n-2)(9n^2-3n-2)} = \frac{(9n^2+3n-2)+(9n^2-3n-2)}{(9n^2+3n-2)(9n^2-3n-2)} = \frac{1}{(9n^2-3n-2)} + \frac{1}{(9n^2+3n-2)}$

$= \frac{1}{(3n-1)(3n+2)} + \frac{1}{(3n+1)(3n-2)} \Rightarrow S_n = c - \frac{1}{3(3n-1)} - \frac{1}{3(3n-2)} \Rightarrow \frac{14}{1\times4\times2\times5} = c - \frac{1}{3.2} - \frac{1}{3.1}$

$\therefore c = \frac{17}{20} \therefore S_n = \frac{17}{20} - \frac{1}{3(3n-1)} - \frac{1}{3(3n-2)}$ (Ans.)

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