

BUET Admission Test 2014-2015

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

Mathematics (Written)

01. $\vec{B} = 2\vec{i} - 4\vec{j} + 3\vec{k}$ ভেক্টর এর লম্ব নিক বরাবর $\vec{A} = -\vec{i} - \vec{j} + 2\vec{k}$ 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 $= A \cos \theta = \frac{\vec{A} \cdot \vec{B}}{|\vec{B}|} : A_x = \frac{9}{\sqrt{29}}$

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

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

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

অভিক্ষেপ $= A \cos \theta = \frac{\vec{A} \cdot \vec{W}}{|\vec{W}|} = \frac{9}{|\vec{W}|} = 0$ (Ans.)

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

Solve: Given, $f(x) = \frac{3x+2}{7x-3}$ $x = \frac{3}{7}$ হলে, $f(x) = \text{undetermined}$ $\therefore$ ডোমেইন $= R \setminus \left\{ \frac{3}{7} \right\}$ (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, $x = \text{undetermined}$ $\therefore$ রেঞ্জ $= R \setminus \left\{ \frac{3}{7} \right\}$ (Ans.)

এখন, যেখানে, $x_1, x_2 \in A$ 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 ডোমেইনের জন্য একটি ভিন্ন রেঞ্জ আছে।

(i) হলে, $x = \frac{3y+2}{7y-3} \Rightarrow f^{-1}(y) = \frac{3y+2}{7y-3} \Rightarrow f^{-1}(x) = \frac{3x+2}{7x-3}$ (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 বকরের বাগের প্রতিটিতে দুইটি একই বকরের ড্রয়ার আছে। প্রথম বাগের দুইটি ড্রয়ারে প্রতিটিতে একটি করে পেনসিল, দ্বিতীয় বাগের প্রতি ড্রয়ারে একটি করে কলম এবং তৃতীয় বাগের একটি ড্রয়ারে একটি পেনসিল ও আর একটি ড্রয়ারে একটি কলম আছে। লটারী করে একটি বাগ নির্বাচন করা হল ও নির্বাচিত বাগের একটি ড্রয়ার খুলে পেনসিল পাওয়া গেল। পেনসিলটি যে প্রথম বাগের তার সম্ভাব্যতা নির্ণয় কর।

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

- 05.* পাশের ধারাবাহিক n -তম পদ পর্যন্ত যোগফল নির্ণয় কর: $\frac{14}{1 \times 2 \times 3} + \frac{68}{4 \times 5 \times 6} + \frac{158}{7 \times 8 \times 9} + \dots$

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

$= \frac{1}{(3n-1)(3n+2)} + \frac{1}{(3n+1)(3n-2)} \Rightarrow S_n = c - \frac{1}{3(3n-1)} - \frac{1}{3(3n-2)} \Rightarrow \frac{14}{1 \times 4 \times 7 \times 10} = c - \frac{1}{3 \times 7} - \frac{1}{3 \times 10}$

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

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Tobias Bleicker



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