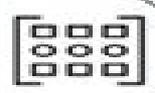




ম্যাট্রিক্স ও নির্ণায়ক

Matrices and Determinants



Board Questions Analysis

সূজনমূলক প্রশ্ন

বোর্ড/সাল	চারা	অবস্থানসিহ্নে	সাময়সীমা	কৃষ্ণিকা	অংশের	মতীভাষ	পরিশীল	নির্দেশ	নির্দেশসূত্র
২০২০	২	২	২	২	১	২	১	২	১
২০২২	২	১	২	১	২	২	১	২	১

কল্পনামূলক প্রশ্ন

বোর্ড/সাল	চারা	অবস্থানসিহ্নে	সাময়সীমা	কৃষ্ণিকা	অংশের	মতীভাষ	পরিশীল	নির্দেশ	নির্দেশসূত্র
২০২০	৫	৫	৫	৫	৭	৫	৫	৫	৫
২০২২	০	৫	৫	৫	৫	৫	৫	৫	৫

বিভিন্ন সালে বোর্ডে আসা সূজনমূলক প্রশ্ন

১। কৃষ্ণকল্প-১: $x + y + z = 1$
 $x + 2y + z = 2$
 $x + y + 2z = 0$ (সেখানে কোর্স '১০১')

কৃষ্ণকল্প-২: $D = 8 \begin{vmatrix} \frac{p-q-r}{2} & p & p \\ q & \frac{q-r-p}{2} & q \\ r & r & \frac{r-p-q}{2} \end{vmatrix}$

- (ক) $A = [1 \ 2 \ 3]$ এবং $B = \begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix}$ হলে, $(AB)^T$ নির্ণয় কর।
- (খ) কৃষ্ণকল্প-১: এ উদ্ভূক্ত সমীকরণ সিস্টেমটি নির্ণয়কর সাহায্যে সমাধান কর।
- (গ) কৃষ্ণকল্প-২: কোর্সে প্রদান কর যে, $D = S^{-1}$, সেখানে $S = p + q + r$ সমাধান কর।

(ক) সেখানে আছে, $A = [1 \ 2 \ 3]$ এবং $B = \begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix}$

$\therefore AB = [1 \ 2 \ 3] \begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix} = [3 + 4 + 3] = [10]$

$\therefore (AB)^T = [10]^T = [10]$ (Ans.)

(খ) সেখানে আছে, $x + y + z = 1$
 $x + 2y + z = 2$
 $x + y + 2z = 0$

x, y ও z এর সমাধানের নিম্নে পদ্ধতি নির্ণয় কর।

$D = \begin{vmatrix} 1 & 1 & 1 \\ 1 & 2 & 1 \\ 1 & 1 & 2 \end{vmatrix}$
 $= 1(4 - 1) - 1(2 - 1) + 1(1 - 2)$
 $= 1 = 0$

এক, $D_1 = \begin{vmatrix} 1 & 1 & 1 \\ 2 & 2 & 1 \\ 0 & 1 & 2 \end{vmatrix}$
 $= 1(4 - 1) - 1(4 - 0) + 1(2 - 0)$
 $= 1$

$D_2 = \begin{vmatrix} 1 & 1 & 1 \\ 1 & 2 & 1 \\ 1 & 0 & 2 \end{vmatrix}$
 $= 1(4 - 0) - 1(2 - 1) + 1(0 - 2)$
 $= -1$

$D_3 = \begin{vmatrix} 1 & 1 & 1 \\ 1 & 2 & 2 \\ 1 & 1 & 0 \end{vmatrix}$
 $= 1(0 - 2) - 1(0 - 2) + 1(1 - 2)$
 $= -1$

$\therefore x = \frac{D_1}{D} = \frac{1}{1} = 1$

$y = \frac{D_2}{D} = \frac{-1}{1} = -1$

$z = \frac{D_3}{D} = \frac{-1}{1} = -1$

\therefore নির্ণয় সমাধান: $(x, y, z) = (1, -1, -1)$ (Ans.)

(গ) $D = 8 \begin{vmatrix} \frac{p-q-r}{2} & p & p \\ q & \frac{q-r-p}{2} & q \\ r & r & \frac{r-p-q}{2} \end{vmatrix}$

$= 8 \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \begin{vmatrix} p-q-r & 2p & 2p \\ 2q & q-r-p & 2q \\ 2r & 2r & r-p-q \end{vmatrix}$

$= 8 \times \frac{1}{8} \begin{vmatrix} p+q+r & p+q+r & p+q+r \\ 2q & q-r-p & 2q \\ 2r & 2r & r-p-q \end{vmatrix}$
 [প্রত্যেকটি সারিকে ১ দ্বারা গুণ করে।]
 $[r]^T = r_1 + r_2 + r_3$

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