

den will not change [4 Sep]

$B_1, B_2, G_1, B_3, G_2, B_4, G_3$

then distributing

$G_1, B_1, B_2, G_1, B_3, B_4, G_3$

Order not changed

How many ways we can distribute Director in such way that vowels don't change their position?

Director \rightarrow ieo think as they are same.

$$\frac{18}{12 \ 12} \leftarrow \text{Ans}$$

Director \rightarrow IE will not change their order.

$$\frac{18}{12 \ 12} \leftarrow \text{Ans}$$

Director \rightarrow IE $\frac{12}{12}$ + EO $\frac{12}{12}$ answer

$$\frac{18}{12 \ 12} \rightarrow \text{Ans}$$

Intenaid \rightarrow Vowel will not change its order.

$$\frac{18}{14} \rightarrow \text{Ans}$$

Director
Y order won't change

$$\frac{18}{12 \ 12} \rightarrow \text{Ans}$$

DIRECTOR
T T T Order will not change

Do it!

Director
Vowel & Consonant $\frac{12}{12}$ won't change
 $\frac{12}{12}$ at 1

Vowel \rightarrow 3
Consonant \rightarrow 5

$$\frac{15}{1} \times 13 \rightarrow \text{Ans}$$

DIRECTOR

When D word only R ans

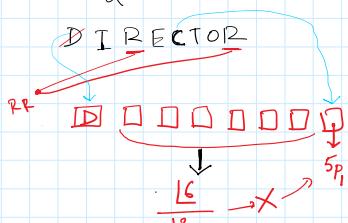
$$\therefore n(DUR) = ?$$

We know,

$$n(DUR) = n(D) + n(R) - n(D \cap R)$$
$$= \frac{12}{12} + 12 - 16 \quad \underline{\underline{\text{Ans}}}$$

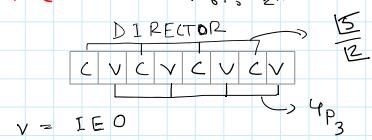
DIRECTOR

When D fixed \rightarrow Count R at ans



Vowel \rightarrow Odd place

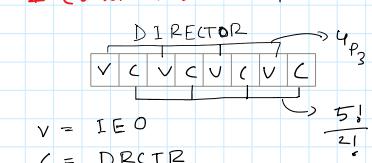
Consonant \rightarrow Even place



$$\text{Ans: } 4P_3 \times \frac{5!}{2!}$$

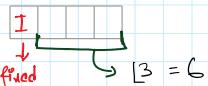
Vowel \rightarrow Odd place

Consonant \rightarrow Even place



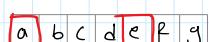
$$\text{Ans: } 4P_3 \times \frac{5!}{2!}$$

Time \rightarrow T fixed ans
What about I - $\frac{12}{12}$ ans?



ITEM, ITEM, ITEM, ITEM, ITEM, ITEM

Time \rightarrow T fixed



$$\therefore R = \frac{8}{2} = 4$$

$\therefore R = 4B$ {proved}

মোট করা পদ্ধতি:

$$2+1 = 3 \text{ গুরুত্ব।}$$

$$\frac{3!}{2!}$$

$$\frac{1}{2!}$$

Ans: $3! \times \frac{5!}{2!}$

Fixed

OR

Fixed
goto top

$$\begin{aligned} & \quad \boxed{3} \\ = & \quad \boxed{3} \times 20 \times 111 \\ = & \quad 2 \times 20 \times 111 \Rightarrow 4440 \end{aligned}$$