

Question 15:

Equivalent weight of H_3PO_2 , when it disproportionate into PH_3 and H_3PO_3 is

ANSWER=OPTION 3

The disproportionation reaction is:



n-factor = (No. of electrons involved / No. of molecules involved)

$$= 4/3$$

Eq. wt. = (molecular weight / n-factor) = $(M \times 3) / 4$

Answer = The equivalent weight of phosphorus is **$3M/4$** .