

ii)

Class-II

This method is used for hypertonic solution.
Add water in solution to make it isotonic

a) White - Vincent method :-

$$V = \frac{W \cdot E}{111.1}$$

where,

V = Volume of water added in solution to make it isotonic

W = weight of drug in gram.

E = Equivalent weight of drug
(Sodium chloride equivalent).

b) Sprague method :-

Simplification of white and Vincent method. Here weight of drug (W) is set to constant value of 0.3.

$$V = \frac{0.3 \cdot E \cdot 111.1}{111.1} \rightarrow V = 33.33E$$

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