

RBSE

CHAPTERWISE PYQ  
**CHEMISTRY**

2013 - 2025



Class  
**12**

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## Solutions

### [Section-A]

#### Multiple Choice Questions:-

1. The pair of non-ideal solutions exhibiting negative deviation from Raoult's law is - [1M]  
(A) Methanol + Water (B) Acetone + Ethanol  
(C) Methanol + Carbon tetrachloride (D) Water + Hydrochloric acid [RBSE 2021]
2. The compound having the highest value of van't Hoff factor (i) for complete dissociation of solute in aqueous solution is- [1M]  
(A) KCl (B) NaCl  
(C)  $K_2SO_4$  (D)  $MgSO_4$  [RBSE 2023]
3. The value of Van't Hoff factor (i) for complete dissociation of  $MgSO_4$  is -  
(A) 1 (B) 2  
(C) 3 (D) 4 [0.5M] [RBSE 2025]
4. The products of the electrolysis of molten sodium chloride are -  
(A) Na(s) and  $H_2(g)$  (B) NaOH and  $H_2SO_4$   
(C)  $H_2(g)$  and  $Cl_2(g)$  (D) Na(s) and  $Cl_2(g)$  [0.5M] [RBSE 2025]

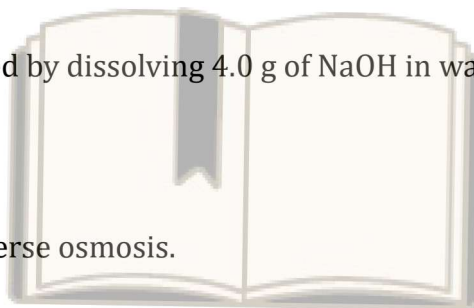
#### Fill in the Blanks:-

5. A homogeneous mixture of two or more chemical substances is called \_\_\_\_\_. [RBSE2021]
6. The mathematical form of Henry's Law is \_\_\_\_\_. [0.5M] [RBSE 2024]
7. The unit of molarity is \_\_\_\_\_. [0.5M] [RBSE 2024]





30. Write the definition of osmosis. Write name of method used in desalination of sea water. [1.5M]  
(RBSE 2023)
31. A 35% (V/V) solution of ethylene glycol is used in vehicle for cooling the engine. Determine the volume of water in millilitre. [1.5M]  
(RBSE 2023)
32. Calculate the mole fraction of gas A in the solution made on mixing 0.5 moles of gas A and 4.5 moles of gas B. [1.5M]  
(RBSE 2024)
33. 0.05 moles of ethanoic acid is dissolved in 250 g benzene. Calculate the molality of the solution. [1.5M]  
(RBSE 2024)
34. 500 mL solution was prepared by dissolving 4.0 g of NaOH in water. Calculate the molarity of the solution. [1.5M]  
(RBSE 2025)
35. Draw a diagram showing reverse osmosis. [1.5M]  
(RBSE 2025)



### [Section-C]

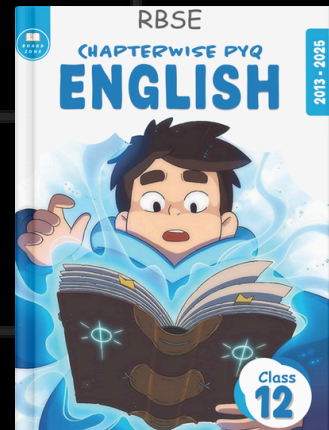
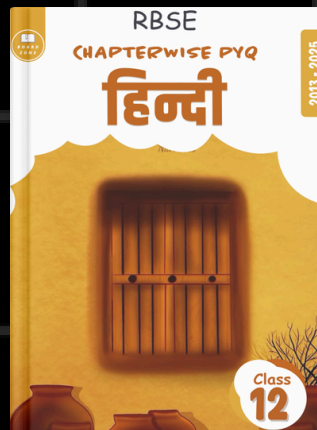
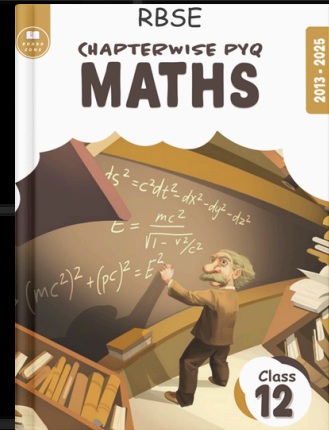
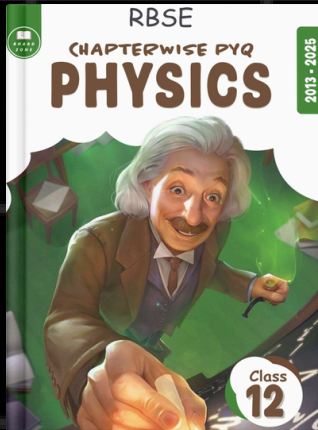
#### Long Answer Type Questions:-

36. (A)(i) What happens to vapour pressure of water if a tablespoon of sugar is added to it?  
(ii) Which colligative property is preferred for the molar mass determination of macromolecules?
- (B) Will the elevation in boiling point be same if 0.1 mole of sodium chloride or 0.1 mole of sugar is dissolved in 1 L of water?
- (C) Can we separate the compounds of azeotropic mixture by fractional distillation? Explain. [3M]  
(RBSE 2014)



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