



RBSE

CHAPTERWISE PYQ

CHEMISTRY

2013 - 2025



Class
12

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Solutions

Multiple Choice Questions:-

- ### 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)

8. The unit of freezing point depression constant, (K_f) is _____. [0.5M]
(RBSE 2025)

Very Short Answer Type Questions:-

9. 5g of NaOH are dissolved in 500 ml water. Find the molarity of the solution. [1M]
(RBSE 2013)
10. Write the formula to calculate the molality. [1M]
(RBSE 2015)
11. Write the formula to calculate the mole fraction. [1M]
(RBSE 2016)
12. What will be the value of Van't Hoff factor for ethanoic acid in benzene? [1M]
(RBSE 2016)
13. What happens when a raw mango placed in concentrated salt solution? [1M]
(RBSE 2016)
14. Write definition of azeotropic mixture. [1M]
(RBSE 2019)
15. Write definition of osmotic pressure. [1M]
(RBSE 2018, RBSE 2023, RBSE 2020)
16. Explain the reason for exhibiting negative deviation from Raoult's law by the solution of chloroform and acetone. [1M]
(RBSE 2022)
17. Write names of solute and solvent present in sodium amalgam solution. [1M]
(RBSE 2024)
18. Define saturated solution. [1M]
(RBSE 2024)
19. Write the definition of molality. [1M]
(RBSE 2025)
20. Write the mathematical form of Raoult's law. [1M]
(RBSE 2025)

[Section-B]

$[R=0.083 \text{ L bar mol}^{-1} \text{ K}^{-1}]$

[2M]

(RBSE 2013)

concentration of solution in mol/litre. [R=0.0821 L atm K⁻¹ mol⁻¹]

[2M]

(RBSE 2015)

(i) Write specific name of above condition.

(ii) Explain the reason of such condition.

[1+1=2M]

(RBSE 2016)

(B) How many gram of NaCl is required to make 200mL aqueous solution of 5% (w/v) NaCl.

 $[1+1=2M]$

(RBSE 2018)

$[R=0.0821 \text{ L atm K}^{-1} \text{ mol}^{-1}]$

[2M]

(RBSE 2020)

Calculate the mass - volume percentage of the solution.

[2M]

(RBSE 2021)

[1.5M]

(RBSE 2022)

29. 1.25g protein is present in 300mL aqueous solution of a protein. The osmotic pressure of such a solution at 300K is found to be 2.50×10^{-3} bar. Calculate the molar mass of protein. [R=0.0821 L bar mol⁻¹ K⁻¹] [1.5M]

[1.5M]

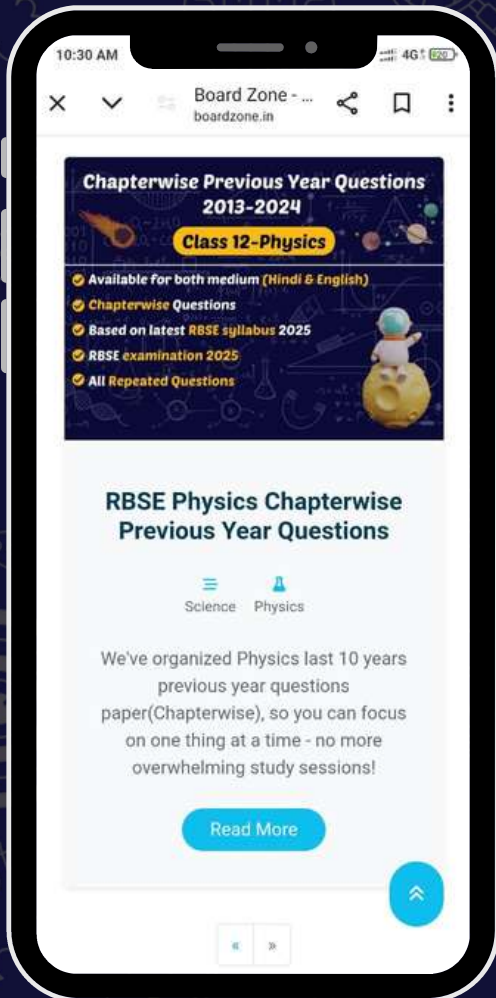
(RBSE 2022)

- d by dissolving 4.0 g of NaOH in wa
- erse osmosis.

Long Answer Type Questions:-

- YouTube : BOARD ZONE**

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