

By. Er. Dharmendra Sir

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DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

TEST - PAPER (CBSE/NCERT)

SOLUTION

SESSION -2024-25

CLASS - 12th

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Time : 1 hr

∴ Solution :-

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Q. 1. Explain why on addition of 1 mole of NaCl to 1 L of water, the boiling point of water increases, while addition of 1 mole of methyl alcohol to 1 L of water decreases its boiling point.



Q. 2. Explain the solubility rule "like dissolves like" in terms of intermolecular force that exist in solutions.

Q. 3. What is the significance of Henry's law constant K_H ?



Q. 4. Why is the vapour pressure of an aqueous solution of glucose lower than that of water?

Q. 5. How does sprinkling of salt help in clearing the snow covered roads in hilly areas? Explain the phenomenon involved in the process?

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Q. 6. What is "Semipermeable membrane" ?

Q. 7. Give an example of a material used for making semipermeable membrane for carrying out reverse osmosis.



Q. 8. Discuss biological and industrial applications of osmosis.

Q. 9. When kept in water, raisin swells in size, Name and explain the phenomenon involved with the help of a diagram. Give three applications of the phenomenon.



Q. 10. Why is the mass determined by measuring a colligative property in case of some solutes abnormal ? Discuss it with the help of van't Hoff factor.

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