

Model Question paper
Colligative Properties 1

11th Standard

Chemistry

Reg.No. :

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I. Answer all the questions.

II. Use blue pen only.

Time : 00:45:00 Hrs

Total Marks : 30

Part - A

2 x 1 = 2

- 1) Properties which depend only on number of particles present in solution are called
(a) Additive (b) Constitutive (c) Colligative (d) None
- 2) Which solution would possess the lowest boiling point
(a) 1 % NaCl solution (b) 1 % Urea solution (c) 1 % glucose solution (d) 1 % sucrose solution

Part - B

2 x 2 = 4

- 3) What are colligative properties?
- 4) Define relative lowering of vapour pressure.

Part - C

3 x 3 = 9

- 5) Prove that the depression in freezing point is a colligative property.
- 6) Explain the terms osmosis and osmotic pressure.
- 7) What are isotonic solutions?

Part - D

3 x 5 = 15

- 8) Explain the determination of relative lowering of vapour pressure by Oswald-Walker method?
- 9) Describe about Beckmann thermometer.
- 10) Explain the determination of depression on freezing point by Beckmann method.

