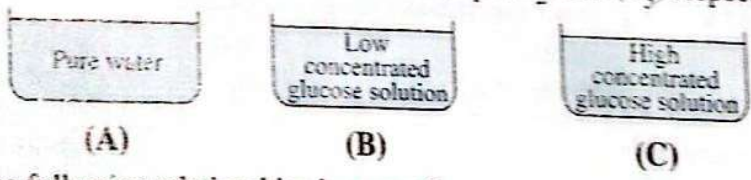


- 24 The probability of water molecules evaporation in solutions decreases compared to pure water due to .....
- (a) increasing the attraction forces among water molecules
  - (b) decreasing the attraction forces among water molecules
  - (c) the presence of attraction forces between water and solute molecules
  - (d) the absence of attraction forces between water and solute molecules
- 25 \* At higher altitudes above sea level, which of the following is correct about the boiling point of pure water?
- (a) It decreases as the atmospheric pressure increases.
  - (b) It decreases as the atmospheric pressure decreases.
  - (c) It increases as the atmospheric pressure decreases.
  - (d) It increases as the atmospheric pressure increases.
- 26 The boiling point of pure water inside the pressure cooking pot may be .....
- (a) 125°C
  - (b) 100°C
  - (c) 90°C
  - (d) 80°C
- 27 In which of the following cases does the boiling point of pure water decrease?
- (a) Inside the pressure cooking pot.
  - (b) When adding table salt to it.
  - (c) At the top of a mountain.
  - (d) When the atmospheric pressure increases.
- 28 Two solutions (X) and (Y) of the same salt, if the boiling point of solution (X) is higher than the boiling point of solution (Y), therefore .....
- (a) the salt concentration in solution (X) is greater
  - (b) the pressure on the surface of solution (X) is lower
  - (c) the salt concentration in solution (Y) is greater
  - (d) the pressure on the surface of solution (Y) is higher
- 29 The following figures represent three beakers (A), (B) and (C) containing equal amounts of liquids, if the boiling point of each of them is ( $T_1$ ), ( $T_2$ ) and ( $T_3$ ) respectively:



- Which of the following relationships is correct?
- (a)  $T_1 > T_2 > T_3$
  - (b)  $T_1 < T_2 < T_3$
  - (c)  $T_1 = T_2 = T_3$
  - (d)  $T_2 < T_1 < T_3$
- 30 In which of the following cases does the pure water boil quickly before its temperature reaches 100°C?
- (a) Being at the top of a mountain.
  - (b) The presence in a low valley.
  - (c) Being at sea level.
  - (d) Putting water in a pressure cooking pot.