Quarter 2 Exams- Revision Sheet- Paper 4- Ions in aqueous solutions

Q2) Completion

1. An ion		t in a chemical reactio B. spectator		
2. The nu		s produced by the disso B. 2 moles.		MgCl ₂ isc 4 moles.
2 TI				
3. The sy	A. HO ⁺	m ion isB. H_2O^+	C. H ₃ O ⁺ D.	H ₃ O ⁺⁺
		(aq) are produced by t		
ioima is	A. Ca(NO ₃)	B. Ca(NO ₃) ₂	C. Ca ₂ (NO ₃) ₂ D.	Ca ₂ (NO ₃)
	A. K^+ (aq) + S^{2-} (a C. $2K^+$ (aq) + $2S^{2-}$ (a solid is formed from	quation for the dissolvi q). B. 1 (aq). D. 2 the combination of tw	K^{+} (aq) + $2S^{2-}$ (aq). $2K^{+}$ (aq) + S^{2-} (aq).	
	A. precipitation	B. combination	C. displacement	D. formation
7. Any su	bstance whose water A. electrolyte	solution conducts election B. nonelectrolyte	tricity is a(n) C. precipitate	D. molecular
8. The vapor pressure of pure water is				the vapor
_	A. greater than	B. less than	C. equal to	
9. The bo	iling point for a 1 M s	solution of glucose (a r	nonelectrolyte) will be solution of NaCl (a str	
	A. higher than	B. lower than	C. equal	

Thebes El Maadi International School Science Department Chemistry 2020/2021

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Q3) Short Answer

- 10. Explain how ionization and dissociation differ.
 - A. Ionization is the process of forming ions from the solute molecules by the action of the solvent. Dissociation is the separation of ions that occurs when an ionic compound dissolves.
 - B. Dissociation is the process of forming ions from the solute molecules by the action of the solvent. Ionization is the separation of ions that occurs when an ionic compound dissolves.
- 11. Distinguish between the dissolution of a strong electrolyte and that of a weak electrolyte.
 - A. In a weak electrolyte, all or almost all the dissolved compound exists as ions in aqueous solution. In a strong electrolyte, little of the dissolved compound exists as ions in aqueous solution
 - B. In a strong electrolyte, all or almost all the dissolved compound exists as ions in aqueous solution. In a weak electrolyte, little of the dissolved compound exists as ions in aqueous solution
- 12. Why is the hydronium ion used to represent the hydrogen ion in a solution?
 - A. In water, the H⁺ ion immediately bonds to a water molecule, forming a hydronium ion, H₃O⁺.
 - B. In water, the water molecules dissociate to give H⁺
- 13. Explain why salt is frequently poured on icy roads in the winter.
 - A. Dissolved salt will raise the freezing point of water.
 - B. Dissolved salt will lower the freezing point of water.
 - C. Dissolved salt will keep the freezing point of water.
 - D. Dissolved salt will keep friction with the ice.
