	STANDARD IX SECOND TERM EXAMINATION 2022 CHEMISTRY Answer Key Prepared by: Jayesh Madasseri, HSST Chemistry; HMSSHS Thurakkal				
Sl.No	Evaluation Points			Marks	
1	H ⁺			IVIUINS	
2	Law of octaves				
3	Flourine				
4	Antacid				
5	Sulphur				
6	Correct statement b and d SO_2 causes acid rain. If the acidity of the soil increases , we add basic substances				
7	Size of atom decreases as we move from left to right in the period because the effective nuclear charge increases				
8	a. Catalyst b. Phosphoric Acid(H ₃ PO ₃)				
9	a. Electronic configuration 20 Ne = 2,8 10 Group Number = 8+10 = 18 b. No; This element do not involve in any type of reactions because this element is already in stable state. Outer most shell of Neon(Ne) has eight electrons				
10	a. HNO_3 > H^+ + NO_3^- b . Basicity of HNO_3 = 1				
11	Name of Salt	Chemical Formula	Use		
	Washing Soda	Sodium Carbonate	Manufacture of glass		
	Blue vitriol	Copper Sulphate	Fungicide		
	Common Salt	Sodium Chloride	Making Freezing Mixture		
12	a.Lavoisier b.Mendeleev c. Mosley				
13	a. When size of an atom increases, the ionisation energy decreases. Atomic size and ionisation energy are inversely proportional b. Nuclear charge c. Decreases				
14.	a) Beaker containing concentrated hydrochloric Acid b. Concentration of acid				

	c. Mg + 2HCl> MgCl ₂ +H ₂	
15.	a. D b) A and B c. C	
16.	 a. Period =4 b. Transition elements c. (i)Transition elements make coloured compounds (ii) They show variable oxidation state 	
17	a. Carbon Dioxide b. CaCO ₃ +2HCl> CaCl ₂ +H ₂ O+CO ₂ c. Rate of chemical reaction increases because, when surface area of solid increases effective number of collision also increases. As a result rate of chemical reaction increases.	
18.	a. A pink colour is formed in NaOH solution b. pink colour gradually decreases c. Neutralisation reaction d) NaCl [NaOH+HCl> NaCl+H ₂ O] Sodium Chloride	
19.	a. Group Number =13 b.2,8 c. P d. P Q = 2,8,4 14	
20	a) 2- NH ₄ *SO ₄ NH ₄ (SO ₄) ₂ (NH ₄) ₂ SO ₄ = ((NH ₄) ₂ SO ₄ b. Used as fertiliser c. Alkali –Calcium Hydroxide(Ca(OH) ₂) Acid Phosphoric Acid (H ₃ PO ₄ Prepared by Jayesh Madasseri ;HSST Chemistry, HMSHSS Thurakkal	
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