11th Periodic Classification - Model Question Paper

Sta	XI PSU	Chemistry		TUDED. ME	arks: 70
t.	Choose the correct answer :	WWW. Tre	WWW.Tr	15X1=15	N.WW.
	Which of the following is the least electronegative a) Bromine b) chlorine	c) lodine	d) Hydrogen		
	In a given shell the order of screening effect is - a) $s > p > d > f$ b) $s > p > f > d$	c) $f > d > p > s$	d) f > p > s >	d PSC.CO.	
	The element with positive electron gain enthalpy a) Hydrogen b) sodium	c) Argon	d) Fluorine		
4.	What would be the IUPAC name for an element a) bibibilium b) bididium	c) didibium	d) bibibium		
	The law of octaves was proposed bya) lother mayer b) Newland Eka - aluminium is	c) Mendeleev	d) chancourt	ois	
6.	a) the lower isotope of aluminium c) Gallium	b) the higher isotope of d) germanium	aluminium		
	The atomic number of unnilquadium a) 101 b) 102	c) 103	d) 104		
	c) 7 periods & 7 groups d) 1	7 periods & 18 groups 18 groups & 18 periods			
	lonic hydrides are formed by a) halogens b) chalcogens	c) inert gases	d) group one	elements	
	In acidic medium H_2O_2 isa) dehydrating agent b) oxidizing agent The No. of Neutron present in tritium is	c) reducing agent	d) desulphur	ising agent	
	a) 1 b) 0 Which is used as rocket fuel?	c) 2	d) 3		
	a) hydrogen b) deuterium The cause of permanent hardness of water is d	c) heavy water	d) tritium		
	a) Ca(HCO ₃) ₂ b) Mg(HCO ₃) ₂ Zeolite used to soften hardness of water is hydr	c) CaCl ₂	d) MgCO ₃		
	a) sodium aluminium silicate b) c	calcium aluminium silicate ithium aluminium hydride			
13.	a) basic oxide b) acidic oxide	c) amphoteric oxide	d) No	one of these	
16. 17. 18. 19. 20. 21. 22. 23.	Answer the following any 6 questions (Q.No What are isoelectric ions? Give examples. What is effective nuclear charge? Give the general electronic configuration of lant Define modern periodic law. Define periodicity. Give the uses of heavy water. What is water - gas shift reaction. Laboratory preparation of hydrogen explain What are isotopes? Write the names of isotopes	hanides and actinides?		rnpsc.com	2=12
	Answer the following questions (Q.No: 28 is Define electronegativity.	s compulsory) (any 6)		6X	3=18
26. 27. 28. 29.	What is screening effect? Why halogens act as oxidising agent? Energy of an electron in the ground state of the enthalpy of atomic hydrogen interms of KJ mol- Complete the following chemical reactions and a) hydrolysis b) redox i) KMnO ₄ + H ₂ O ₂ → ii) CrCl ₃ + H	classify them into c) hydration reactions	10 ⁻¹⁸ J. Calcula D + H₂O →	ate the ionisation	on _{www} .T
	Compare the structures of H ₂ O and H ₂ O ₂ Explain the exchange reactions of deuterium	WW.Tro	MIT. WWW.		
32.	Explain diagonal relationship What is meant by Intramolecular hydrogen bond	42			
	Tansc. Co	These.com		These sy	5=25
34. 35.	Answer the following questions (any 5) Explain Pauling's method of determination of ion State the trends in the variation of electro negat Explain the following give appropriate reasons. (i) Ionisation potential of N is greater than that of (ii) First Ionisation potential of C - atom is greater	ivity in group and periods. of O.	e as the revers		
38.	ionisation potential. A group - 1 metal (A) which is present in common is present in -1 oxidation state. (B) on reaction we reacts with (A) to give (E) a strong base. Identify How do you convert para hydrogen into ortho has all Hydrogen peroxide can function as an oxidistrian	with a gas to give universal s y A, B, C , D & E Explain the ydrogen	solvent (D). The reactions.	e compound (I	D) on
	with suitable examples b) Do you think that heavy water can be used for	or drinking purposes?	MMM. ILE	(3) (2)	
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