EBD-11-18 2-18

Objective Paper Code 6488

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Intermediate Part First (New Scheme) CHEMISTRY (Objective) GROUP - II Marks: 17



Time: 20 Minutes

You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

S.#	Questions	A	B	С	D
1	Splitting of spectral lines of hydrogen atoms under magnetic field is called:	Stark effect	Zeeman effect	Compton effect	Splitting effect
2	When up to 6d orbitals are filled with electrons, next entering electron goes to:	78	7p	7d	7f
3	Ammonia (NH3) shows maximum boiling point among hydrides of group 5A, it is due to:	Very small size of N atom	Least electronegative character of N atom	Most electronegative character of N atom	Pyramidal structure of NH3 molecule
4	In order to mention the boiling point of water at 110°C, the external pressure should be:	Between 200 torr & 760 torr	Between 760 torr & 1200 torr	765 torr	760 torr
5	The molar volume of O2 gas is maximum at:	STP	127°C and 1 atm	0.00°C and 2 atm	273°C and 2 atm
6	Considering van derWaals constant "a" and "b", a real gas behaves as ideal if:	Both "a" and "b" are large	Both "a" and "b" are small	"a" is large but "b" is small	"a" is small but "b" is larg
7	The comparative rate at which solute travels on chromatographic paper depends upon:	R: value	The size of paper	Mobile phase	Temperature
8	During combustion analysis CO ₂ produced is absorbed by:	Mg(ClO ₁)2	KOH(50%)	CaC ₂	P ₂ O ₅
9	Fractional atomic mass is mainly due to:	Mass of atom is in fraction	Atomic mass is average mass of isobars	Elements mostly consist of isotopes having different fractional abundances	Atomic mas is average masses of isotopes
10	The rate law of a reaction is rate = k [A] ² [B], it "A" is in large except then order of reaction is:	I D M	1 2 2	3	4
11	Oxidation number of Cr in K2Cr2O- is:	- 2	+ 3	+ 6	+ 7
12	Molarity of pure water is:	1.00	6.00	18.0	55.5
13	An azeotropic mixture of two liquids boils at lower temperature than either liquid when:	It shows negative deviation from Raoult's law	It shows positive deviation from Raoult's law	It is metastable	It is saturate
14	The pH of 1.0×10 ⁻³ M H ₂ SO ₄ solution is:	1.5	2.0	2.7	3.0
15	relationship most probably correct is:	$\mathbf{q}_{\mathbf{p}} \stackrel{\omega}{=} \mathbf{q}_{\mathbf{v}}$	$q_p + q_s = 0$	q ₂ < q,	q _P > q,
16	Which species has unpaired electrons in its molecular orbitals	B ₂	F2	Nž	O ² .
17	Which molecule has zero dipole moment	131-	CHCE	11.1.1	NH

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	Intermediate Part First (New Scheme) Roll No
	CHEMISTRY (Subjective) GROUP - II
	Time: 02:40 Hours Marks: 68
	Thile: off the treat
	SECTION – I
	Write short answers of any EIGHT parts.
	 i) Define gram atom and gram formula. ii) 2g H₂, 16g CH₄, 44g CO₂ occupy same volume. Why?
	 (ii) 2g H₂, 16g CH₃, 44g CO₂ accupy same volume. Why fill (iii) How efficiency of chemical reaction be expressed?
	iv) How crystals are derived by using filter paper?
1	(v) Why there is need to crystallize crude products?
1	 (vi) State Joule-Thomson effect. (vii) H₂ and He cannot be liquefied by Lind's method. Why?
	(viii) Define the terms critical temperature and critical pressure.
	(iii) Give general principle of lighteraction of gasses.
	 (x) One general principle of inflatenessure is independent of temperature. Explain. (x) Define hydrates. How are they formed?
	 (xi) Define hydrates. How are they formed? (xii) Why hydration energy of Mg⁻⁺ ion is higher than Na⁻¹ ion?
3	Write short answers of any EIGHT parts.
	(i) Define dipole-dipole forces. Give examples.
	 (i) What is polarizability? How it affects London dispersion forces? (ii) HF is a weaker acid than HC? . 1Br . HI. Justify it.
	the second s
	(v) Write any two properties of positive rays.
	(vi) Calculate the mass of electron with help of e/m.
	(vii) Write two defects of Rutherford atomic model.(viii) What is continuous spectrum? Give example.
	(ix) Differentiate between reversible and irreversible reaction.
	(x) How direction of reaction is determined by Ke?
	 (xi) Define average and instantaneous rate of reaction. (xii) Describe specific rate constant or velocity constant of a reaction.
4	Write short answers of any SIX parts.
4	(i) 75 Jpm is compromise distance between two hydrouse (100 11 100 11 100
	 (ii) Why dipole moment of CO₂ is zero but that of CO is 0.12D 4.3 [1] (iii) Why energy of antibonding molecular orbitals are greater than that of boarding molecular orbitals?
	 (iii) Why energy of antibonding molecular of binas are getting to be an interval of antibonding molecular of binas are getting to be an interval of antibonding molecular of binas are getting to be an interval of antibonding molecular of binas are getting to be an interval of antibonding molecular of binas are getting to be an interval of antibonding molecular of binas are getting to be an interval of antibonding molecular of binas are getting to be an interval of antibonding molecular of binas are getting to be an interval of antibonding molecular of binas are getting to be an interval of antibonding molecular of binas are getting to be an interval of antibonding molecular of binas are getting to be an interval of antibonding molecular of binas are getting to be an interval of antibonding molecular of binas are getting to be an interval of antibonding molecular of binas are getting to be an interval of antibonding molecular of binas are getting to be an interval of an interval of an interval of binas are getting to be an interval of binas are
	(v) Describe spontaneous process. Give an example.
	(vi) Define enthaloy of atomization. Give an example
	 (vii) Lead accumulator is a chargeable battery. Justify. (viii) Give difference between electrolytic and voltaic cell.
	(iii) One difference between terms and the second s
	SECTION ALL Attempt any THREE questions. Each question carries 08 marks.
	5. (a)Define actual yield and theoretical yield. Why the actual yield is lesser than theoretical yield? Also
	give the formula to calculate the percent yield.
	(b) Write four properties of covalent solids.
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	a re- fine of experiment alectron in him official of the owner of the owner of the
	the new of the given compounds with the help of V.S.E.F.K theory (i) ready
	the second start at compussion of substance by Danie save
	(b) How do you measure the near of conneuration of action of K _e in this reaction at 500°C is 6.0×10^{-2} . 8. (a) N ₂ (g) and H ₂ (g) combine to give NH ₃ (g). The value of K _e in this reaction at 500°C is 6.0×10^{-2} .
	Calculate the value of K ₂ for this reaction. (b)Discuss any four factors which influence the rates of chemical reactions.
	9 (a) Write the rules for assigning ovidation number to an element in a compound obligative property used to find out molecular mass of solut (b) How is lowering in variour pressure as colligative property used to find out molecular mass of solut (b) How is lowering in variour pressure as colligative property used to find out molecular mass of solution.
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