PAPER CODE - 6481

(11th CLASS - 12018)

OGK-41-11-18

CHEMISTRY (NEW COURSE)
GROUP FIRST

ACADEMIC SESSION: 2015 - 2017 TO 2017 - 2019

TIME: 20 MINUTES

MARKS: 17

OBJECTIVE

NOTE: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

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	STION NO. 1
1	The volume occupied by 1.4 g of N_2 at STP is (A) 2.24 dm ³ (B) 22.4 dm ³ (C) 1.12 dm ³ (D) 112 cm ³
2	27 g of Al will react completely with how much mass of O ₂ to produce Al ₂ O ₃
2	(A) 8 g of oxygen (B) 16 g of oxygen (C) 32 g of oxygen (D) 24 g of oxygen
3	Insoluble particles can be separated from liquid by
	(A) Sublimation (B) Solvent extraction (C) Crystallization (D) Filtration If absolute temperature of a gas is doubled and pressure is reduced to one half, the volume of gas will
4	
	(A) Remain unchanged (B) Increase four times (C) Reduce to $\frac{1}{4}$ (D) Be doubled
5	Dipole-induced dipole forces are also called
	(A) London Dispersion Forces (B) Debye Forces (C) Hydrogen bonding (D) Huckel Forces
6	The molecules of CO ₂ in dry ice form
	(A) Ionic crystals (B) Covalent crystals (C) Molecular crystals (D) Any type of crystals
7	Which of the hydrogen halides has the highest percentage of ionic character?
	(A) HCl (B) HBr (C) HF (D) HI
8	Quantum number values for 2p orbitals are
	(A) $n=2$, $\ell=1$ (B) $n=1$, $\ell=2$ (C) $n=1$, $\ell=0$ (D) $n=2$, $\ell=0$
9	Splitting of spectral lines when atoms are subjected to strong electric field is called
	(A) Zeeman effect (B) Stark effect (C) Compton effect (D) Photoelectric effect
10	Geometry of SO ₂ molecule is
	(A) Linear (B) Angular (C) Tetrahedral (D) Trigonal pyramidal
11	For the reaction: NaOH + HCl -> NaCl + H ₂ O, the change in enthalpy is called
	(A) Heat of reaction (B) Heat of formation (C) Heat of neutralization (D) Heat of combustion
12	The solubility product of AgCl is 2.0 ×10 ⁻¹⁰ mol ² dm ⁻⁶ . The maximum concentration of Ag ⁺ ions in the
	solution is
	(A) 2.0×10^{-10} mol dm ⁻³ (B) 1.41×10^{-5} mol dm ⁻³
	(C) 1.0×10^{-10} mol dm ⁻³ (D) 4.0×10^{-20} mol dm ⁻³
13	The values of Kw of water at 25 °C is
	(A) 0.11×10^{-14} (B) 0.30×10^{-14} (C) 1.0×10^{-14} (D) 7.5×10^{-14}
14	
	(A) Na Cl (B) Cu SO ₄ (C) Na ₂ CO ₃ (D) NH ₄ Cl
15	
	(A) $\frac{1}{5}$ (B) 5.1 (C) $\frac{1}{51}$ (D) 6
16	
	(A) Oxidation potential (B) Reduction potential (C) Redox potential (D) E.M.F. of cell
17	If the rate equation of a reaction $2A + B \rightarrow \text{products is}$, rate = $k [A]^2 [B]$, and A is present in large
	excess, then order of reaction is
	(A) 1 (B) 2 (C) 3 (D) Zero

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2	27 g of Al will react completely with how much mass of O ₂ to produce Al ₂ O ₃
	(A) 8 g of oxygen (B) 16 g of oxygen (C) 32 g of oxygen (D) 24 g of oxygen
3	Insoluble particles can be separated from liquid by
	(A) Sublimation (B) Solvent extraction (C) Crystallization (D) Filtration
4	If absolute temperature of a gas is doubled and pressure is reduced to one half, the volume of gas will
	(A) Remain unchanged (B) Increase four times (C) Reduce to 1 (D) Be doubled
5	Dipole-induced dipole forces are also called
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6	The molecules of CO ₂ in dry ice form
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12	The solubility product of AgCl is 2.0 ×10 ⁻¹⁰ mol ² dm ⁻⁶ . The maximum concentration of Ag ⁺ ions in the
	solution is
	(A) $2.0 \times 10^{-10} \text{ mol dm}^{-3}$ (B) $1.41 \times 10^{-5} \text{ mol dm}^{-3}$
}	(C) $1.0 \times 10^{-10} \text{ mol dm}^{-3}$ (D) $4.0 \times 10^{-20} \text{ mol dm}^{-3}$
13	The values of Kw of water at 25 °C is
	(A) $0.11 \times 10^{-14}$ (B) $0.30 \times 10^{-14}$ (C) $1.0 \times 10^{-14}$ (D) $7.5 \times 10^{-14}$
14	
	(A) Na Cl (B) Cu SO ₄ (C) Na ₂ CO ₃ (D) NH ₄ Cl
15	18 g of glucose is dissolved in 90 g of water. The relative lowering of vapour pressure is equal to
	(A) $\frac{1}{5}$ (B) 5.1 (C) $\frac{1}{51}$ (D) 6
16	Stronger the oxidizing agent, greater is the
	(A) Oxidation potential (B) Reduction potential (C) Redox potential (D) E.M.F. of cell
17	1 CLUB 1 CLUB 1 CA 12 CD 2 C
	excess, then order of reaction is
	(A) 1 (B) 2 (C) 3 (D) Zero