Roll No CHEMI	ISTRY (To be filled in by the candidate) (Academic Sessions 2015 - 2017 to 2018 - 2020) ISTRY 219-(INTER PART - I) Time Allowed: 20 Minutes
	ISTRY 219-(INTER PART – I) Time Allowed: 20 Minutes CR – I (Objective Type) GROUP – I Maximum Marks: 17
V	PAPER CODE = 6481
Note:	Four possible answers A, B, C and D to each question are given. The choice which you think is correct,
	fill that circle in front of that question with Marker or Pon ink or the answer-book. Cutting or filling two or more circles will result in zero mark in that question.
1-1	The largest number of molecules is present in :
	(A) $5.4 \text{ g of } N_2 O_4$ (B) 2.8 g of CO (C) $4.8 \text{ g of } C_2 H_6 O$ (D) $3.6 \text{ g of } H_2 O_4$
2	1.00 mole of SO ₂ contains:
1	
	(A) 6.02×10^{23} atoms of oxygen (B) 3.01×10^{23} molecules of SO_2
	(C) 6.02×10^{23} molecules of SO_2 (D) 3.01×10^{23} atoms of sulphur
3	Solvent extraction is a separation technique used for the product, which is:
	(A) Non-volatile; thermally unstable (B) Volatile; thermally stable
	(C) Non-volatile; thermally stable (D) Volatile; thermally unstable
4	The deviation of a gas from ideal behaviour is maximum at :
5	(A) -10 °C and 5 atm (B) -10 °C and 2 atm (C) 100 °C and 2 atm (D) 0 °C and 2 atm
3	The order of effusion of NH_3 , SO_2 , $C\ell_2$ and CO_2 gases is:
	(A) $NH_3 > SO_2 > C\ell_2 > CO_2$ (B) $NH_3 > CO_2 > SO_2 > C\ell_2$
	(C) $C\ell_2 > SO_2 > CO_2 > NH_3$ (D) $NH_3 > CO_2 > C\ell_2 > SO_2$
6	Density of ice is minimum at 4 °C due to :
	(A) Empty spaces in structure of ice (B) Tetrahedral shape of crystal of ice
	(C) Large bond lengths (D) Large bond angles
7	The solid which has no definite crystalline shape:
	(A) Sugar (B) Salt (C) Glass (D) Dry ice
8	Quantum numbers, which represents 2p orbitals are:
9	(A) $n=2, \ell=1$ (B) $n=1, \ell=2$ (C) $n=1, \ell=0$ (D) $n=2, \ell=0$
9	The nature of positive rays in discharge tube depends upon nature of:
10	(A) Anode (B) Cathode (C) Residual gas (D) Discharge tube Nature of bonds in N ₂ molecule is:
10	
11	(C) Two sigma; one pi bond (D) Three pi bonds For HF molecule μ_{obs} is 1.90 D; μ_{ionic} is 4.4 D. The percentage ionic character of HF molecule is:
	(1) 100
12	(A) 100 (B) 80 (C) 57 (D) 43 The amount of heat absorbed when one mole of gaseous atoms are formed from the element is
	called enthalpy of :
	(A) Formation (B) Reaction (C) Combustion (D) Atomization
13	For which of the following reaction, the unit of equilibrium constant (K_c) is reciprocal of
	molar concentration (M ⁻¹):
	(A) $3H_2(g) + N_2(g) \implies 2H_3N(g)$ (B) $2NO_2(g) \implies N_2O_4(g)$
	(C) $H_2(g) + I_2(g) \implies 2HI(g)$ (D) $N_2(g) + O_2(g) \implies 2NO(g)$
14	18 g glucose dissolved in 90 g water has relative lowering of vapour pressure equal to :
	18 1 10 1
	90 6 51 51
15	The salt dissolved in water forms a solution of pH greater than 7 :
	(A) $NaC\ell$ (B) Na_2CO_3 (C) $CuSO_4$ (D) $NH_4C\ell$
16	The oxidation state of oxygen in OF_2 is:
	(A) -2 (B) -1 (C) $+1$ (D) $+2$
17	The unit of rate constant is same as that of rate of the reaction having order:
L	(A) Zero (B) One (C) Fractional (D) Two
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