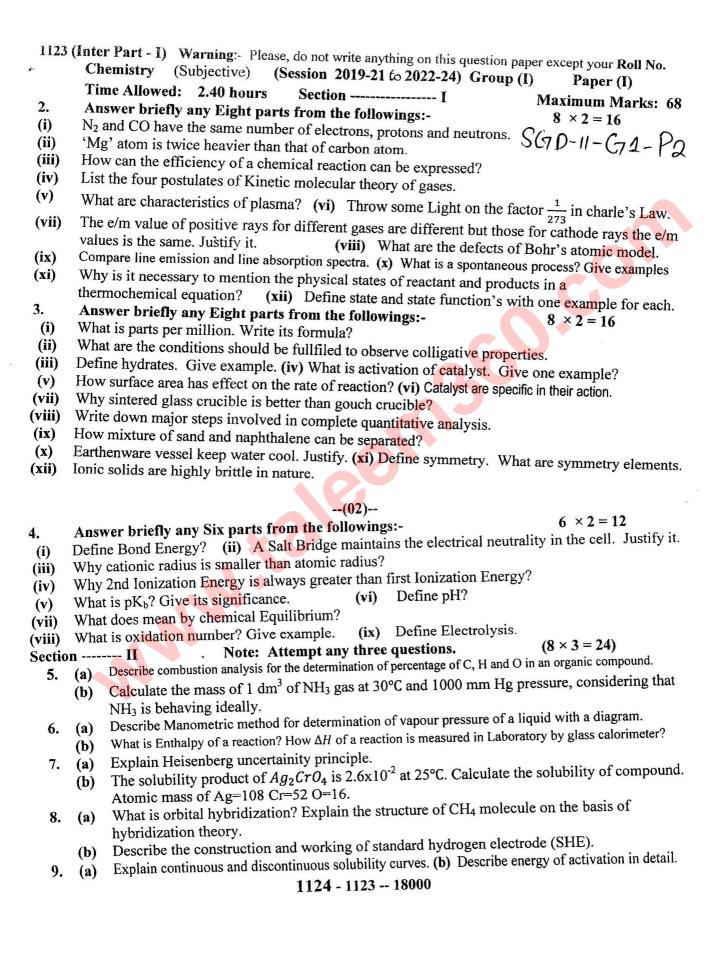
SGD-11-G1-P1 Warning:- Please write your Roll No. in the space provided and sign Roll No-----(Inter Part - I) (Session 2019-21 to 2022-24) Sig. of Student ----Chemistry (Objective) (Group - I) Paper (I) Time Allowed: - 20 minutes **PAPER CODE 2481** Maximum Marks:- 17 Note:- You have four choices for 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. Write PAPER CODE, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or white correcting fluid is not allowed. **O**. 1 1) The volume occupied by 1.4 g of N_2 at S.T.P. is (A) 1.12 dm^3 (B) 2.24 dm^3 (C) 22.4 dm^3 (D) 112 cm³ 2) Which of the following is a monoisotopic element. (A) Silver (B) Calcium (C) Chlorine (D) Fluorine 3) Which of the following can be sublime. (A) Calcium (B) NaCl (C) Naphthalene (D) Na_2CO_3 4) Constant factor in charlie's law. (A) Volume (B) Pressure (C) Tempreture (D) Both V and T 5) The order of rate of diffusion of gases NH₃, SO₂, Cl₂ and CO₂ is (A) NH₃>CO₂>SO₂>Cl₂ (B) NH₃>SO₂>Cl₂>CO₂ (C) Cl₂>SO₂>CO₂>NH₃ (D) NH₃>CO₂>Cl₂>SO₂ 6) Which of the following is amorphous solid (C) NaBr (A) NaCl (B) Glass (D) CaF₂ 7) Which of the following has highest vapour pressure at 25°C. (A) Mercury (B) Ethanol (C) $CC\ell_4$ (D) Chloroform 8) When 6d orbital is complete the entering electron goes into (A) 7f (B) 7s (C) 7d (D) 7p 9) Number of bonds in nitrogen molecule is (B) Three sigma (C) Two sigma and one π (D) One σ and Two π (A) One σ and one π 10) Units of energy in which heat changes in S.I system are. (A) Joule (B) Torr (C) Erg (D) Newton 11) The net heat change in a chemical reaction is same weather the reaction completes in one step or several steps. It is known as (A) Henry's law (B) Joule's principle (C) Hesse's law (D) Law of conservation of energy 12) Mixture of NH_4OH and NH_4Cl makes a buffer whose pH is (A) less than seven (B) 7 (C) More than seven (D) 4 13) For the reaction $N_2+3H_2 \rightleftharpoons 2NH_3$, The pressure at optimum condition is. (A) 100 atm (B) 600 atm (C) 200-300 atm (D) 1000 atm 14) Molarity of pure water is. (A) 01(B) 55.5 (C) 18(D) 8 15) If a strip of Cu metal is placed in a solution of FeSO₄ (B) Fe is precipitated out (C) Cu and Fe both (A) Cu will be (D) No reaction takes deposited dissolved place 16) Oxidation number of Mn in KMnO₄ is (A) +5(B) + 7(D) +217) The unit of rate constant is the same as that of the rate of reaction in (A) First order reaction (B) Second order (C) Zero order reaction (D) Third order

1123 - 1123 - 18000 (1)

reaction



25 Warning:- Please write (Inter Part – I)	e your Roll No. in the s (Session 2019-21 to			No
nemistry (Objective)	(Group - I		Paper (I)	
me Allowed:- 20 minutes	PAPER CO		Maximum N	Marks:- 17
te:- You have four choices for eac t circle in front of that question nu ult in zero mark in that question. W swer Sheet and fill bubbles according ite correcting fluid is not allowed.	h objective type question as mber. Use marker or pen to rite PAPER CODE, which	A, B, C and D. of fill the circles. is printed on the will be responsible	Cutting or filling is question paper,	two or more circles will, on the both sides of the
1) Which of the following h	as hydrogen bonding?	$(C) NH_3$	(D)	SiH ₄
2) The electron affinity of c	(B) $CC\ell_4$ hlorine is.	(C) N113	(D)	
(A) $-349 \ kJ \ mol^{-1}$	B) $-249 kJ mol^{-1}$	(C) -449 kJ r	nol^{-1} (D)	$+396 \ kJ \ mol^{-1}$
3) Acid having $K_a > 1$ will		(C) Madamata	(D)	Stuama
(A) Weak4) 18 g glucose is dissolved	(B) Very weak in 90 g of water. The re	(C) Moderate	` '	Strong ssure is equal to
$(A)^{1}/_{5}$	(B) 5.1	(C) $\frac{1}{51}$	(D)	
5) Orbitals having same ene		(C) da	to publicate (D)	d auhitala
(A) unhybrid orbitals6) The volume of 1.6g of Cl		(C) degenera	te orbitals (D)	u-orditals
	(B) 2.24 dm^3	(C) 22.41 dr	n^3 (D)	112 dm ³
	(B) 154 torr	(C) 159 torr	(D)	164 torr
8) In silver oxide battery, th			(-)	
(A) AgO	(B) Ag_2O	(C) Ag_2O_3	(D)	Ag
10) Stronger the oxidizing ag (A) oxidation potential	ent, greater is the:		ential (D)	E.M.F of cell
11) The rate of reaction. (A) increases as the reaction proceeds	(B) decreases as the reaction proceeds	(C) remains t as the rea proceeds	ection	may decrease or increase as the reaction proceeds
 12) The largest number of m (A) 3.6 g of H₂O 13) Solvent extraction method is (A) non-volatile or thermally unstable 	a particularly useful technique (B) volatile or thermally	(C) 2.8 g of (c) to separation (C) non-volation thermally	CO (D) when the product to itle or (D) stable	$5.4 \text{ g of } N_2O_5$ be separated is. volatile or thermally unstable
14) The order of the rate of	diffusion of gases NH ₃ , (2) (B) NH ₃ >CO ₂ >SO ₂ >C	SO_2 , Cl_2 and $Cl_2 > SO_2$	CO_2 is: $CO_2>NH_3$ (I) $CO_2>NH_3$ (I)	O) NH ₃ >CO ₂ >Cl ₂ >So nould be
(A) between 760 torr	(B) between 200 torr	(C) 765 torr	(73)) any value of pressure
16) Which of the following			,) BF ₃
(A) NH ₃ 17) The pH of 10 ⁻³ mol di (A) 3.0	m^{-3} of an aqueous solut (B) 2.7	ion of H_2SO_4 (C) 2.0	is (D) 1.5
(A) 3.0	1125 - 1123	15000 (4)	\	

