Inter (Part-I) 2017

Chemistry	Group-l	PAPER: I	
Time: 20 Minutes	(OBJECTIVE TYPE)	Marks: 17	

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 Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

- 1-1- The voltage of Nickel Cadmium Cell is:
 - (a) 1 V

(b) 1.2 V

(c) 1.4 V 1/

- (d) 1.6 V
- For which system does the equilibrium constant K_c has units of (concentration)-1:
 - (a) $N_2 + 3H_2 \rightleftharpoons 2NH_3$ (b) $H_2 + I_2 \rightleftharpoons 2HI$
 - (c) $2NO_2 \rightleftharpoons N_2O_4 \sqrt{}$ (d) $2HF \rightleftharpoons H_2 + F_2$
- If absolute temperature of a gas is doubled and the pressure is reduced one-half, the volume of a gas will:
 - (a) Remain unchanged
- (b) Increase four times √
- (c) Reduce to 4
- (d) Be doubled
- 18 g glocuse is dissolved in 90 g of water. The relative lowering of vapour pressure is equal to:
 - (a) $\frac{1}{5}$

- Orbitals having same energy are called:
 - (a) Hybrid orbitals
- (b) Valence orbitals
- (c) Degenerate orbitals √ (d) d-orbitals
- The cathodic reaction in the electrolysis of dil. H2SO. with pt electrodes is:
 - (a) Reduction 1/
 - (b) Oxidation
 - (c) Both oxidation and reduction
 - (d) Neither oxidation or reducion

110°C, the external pressure should be: (a) Between 760 torr and 1200 torr √ (b) Between 200 torr and 760 torr (c) 765 torr (d) Any value of pressure 760 torr (d) Any value of pressure 760 torr (e) 765 torr (f) Any value of pressure 760 torr (g) 2.24 dm ³ (h) 22.4 dm ³	ınt ed						
(b) Between 200 torr and 760 torr (c) 765 torr (d) Any value of pressure 760 torr The value occupied by 1.4 g of N ₂ at STP is:	ınt						
(c) 765 torr (d) Any value of pressure 8- The value occupied by 1.4 g of N ₂ at STP is:	ınt ed						
8- The value occupied by 1.4 g of N ₂ at STP is:	int ed						
	ınt ed						
(a) 2.24 dm ³	ınt ed						
\-/ \ \ \	int ed						
(c) 1.12 dm ³ √ (d) 112 cm ³ 9- For a given process, the heat changes at consta	nnt ed						
For a given process, the heat changes at constant							
	pressure (q _p) and at constant volume (q _v) are related						
to each other as:	3-						
(a) $q_p = q_v$ (b) $q_p < q_v$							
(c) $q_p > q_v $ (d) $q_p = \frac{q_v}{2}$							
10- Sum of pK _a and pK _b is equal to:	4						
(a) 7 (b) 1							
(c) 14 √ (d) 0							
11- When 6d orbital is complete, the entering electr	on -						
goes into:							
(a) 7f (b) 7s							
(c) 7p 1/ (d) 7d							
12- The comparative rates at which the solutes move	in						
paper chromatography depend upon:							
(a) The size of the paper.							
(b) R _f values of solutes. √							
(c) Temperature of the experiment.	,						
(d) Size of the chromatographic tank used.							
13- Diamond is a bad conductor because:							
(a) It has a tight structure.							
(b) It has a high density.(c) There are no free electrons present in the crystal of							
diamond to conduct electricity.							
(d) Is transparent to light.	,						
14- The deviation of a gas from ideal behaviour	ie						
maximum at:	13						
(a) −10°C and 5.0 atm √ (b) −10°C and 2.0 atm							
(c) 100°C and 2.0 atm (d) 0°C and 2.0 atm							
(c) 100 C and 2.0 auti (u) 0 C and 2.0.aum							

15-	Which	of	the	hydrogen	halides	has_the	highest
	percen	tage	of i	onic charac	ter:		

(a) HC/

(b) HBr

(c) HF 1

(d) HI

16- The rate of reaction:

- (a) Increases as the reaction proceeds.
- (b) Decreases as the reaction proceeds. √
- (c) Remains the same as the reaction proceeds.
- (d) May decrease or increase as the reaction proceeds.

17- The number of moles of CO₂ which contain 8.0 g of oxygen:

(a) 0.25 √

(b) 0,50

(c) 1.0

(d) 1.5

