Q.N	is correct, fill that hubble in f	You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.					
S.#	QUESTIONS	A	ll l	C	D		
1	Empirical formula of glucose is:	CH ₂ O.	$C_i H_i O_i$	$C_{s}H_{ij}O_{s}$	$C_iH_iO_i$		
2	One mole of SO ₂ contains:	6.02 × 10 ²³ atoms of oxygen	18.1×10^{11} molecules of SO_3	4 gram atoms of SO ₄	6.02 0': atoms of sulphar		
3	Which of the following is used a decolourizing agent in crystallization?	s H ₂ SO ₄	Graphite	Animal charcoal	11,0		
4	Pressure remaining constant at which temperature the volume of gas will become twice of what it at 0°C:	a 200° C	546K-	546°C	273 <i>K</i>		
5	The deviation of a gas from ideal behaviour is maximum at:	and 5.0atm	-10°C and 2,0 atm	100°C and 2.0 atm	0°C and 2.0 atm		
6	Glycerin boils at 210°C when external pressure is:	760 torr	500 torr.	100 torr	50 torr		
7	Diamond is bad conductor becau	se: It has a tight structure	It has a high density	There are no free electron present in the crystal or diamond to conduct electric.	Is transparent to light		
8	Quantum number values for 2p orbitals are:	$n=1$, $\ell=2$		$n = 1, \ell = 0$	$n=2, \ell=0$		
9	Which of the following molecule has zero dipole moment?	60.	H.6	HI.	CH ₃ Ct		
0	One calorie is equivalent to:	0.4184J	418.4J	41.843	4.184 J.		
1	The study of heat changes accompanying a chemical reaction is known as:	Chemistry	Thermochemistry.	Physical chemistry	Biochemistry		
12	The pH of 10^{-3} mol dm^{-3} of an aqueous solution of H_2SO_4 is	3.0	2.0	2.7	1.5-		
3	pll of soft drinks is approximately:	1.5	1,0	2.0	3.0		
14	An aqueous solution of ethanol is water may have vapour pressure:	Equal to that of water	Equal to that of ethanol	More than • that of ater	Less than that of water		
15	Oxidation number of all elements in free state is:	Zerr	+1	+2	-1		
6	If the salt bridge is not used between two half cells, then the voltage:	Decrease rapidly	Decrease slowly	Does not change	Drop zero		
17	If the rate equation of a reaction $2A + B \rightarrow \text{products is, rate} =$	01	02	03	04		
	$K[A]^{T}[B]$ and A is present in lar excess, then the order of reaction						

, Line	INTERMEDIATE PART-I (11 th Class)	2823 (1"-	The year of the same of the same	V-1-1-1			
	MISTRY PAPER-I GROUP-I	SUBJECTIVE	MAXIMUM MAR	KS: 68			
TIM	E ALLOWED: 2.40 Hours E: Write same question number and its part	anmber on snewer b	ook, as given in the question	в разыт.			
MATL	T: Attend some decision administration to but	SECTION-I		8 x 2 = 16			
2. At	nempt any eight parts.	- Constant	to 18 mont.	TO COMPANY			
(i)	No individual mon atom in the sample of the	element has a mass or .	limiting reactares. Justify.				
(ii)	Many chemical mactions taking place in our s 180g of glucose and 342g of sucrose have the	same manher of molec	utes but different number				
(#2)							
(iv)	testify that low of H and low of CH.	at STP will have same	number of medocules,				
	Instify that $1cm^4$ of H_2 and $1cm^4$ of CH_4 at STP will have same number of molecules, when one molecule of CH_4 is 8 times heavier than that of hydrogen.						
(v)	when one molecule of CII ₄ is 8 tones heavier than that of systems of given of gifts ⁻¹ cather than given ² ? Why do we feel comfortable in expressing the densities of gases in the units of gifts ⁻¹ cather than given ² ?						
_	Why no we feel contrictable is expressing the denoted in grant and grant and a second and below it follows that the second and a second						
(vii)	Water supports do not behave ideally at 273K. Why?						
(via)	Do you think that the size of II^{ij} is even smaller than He^* ? Justify it.						
311.00	Distribute electrons in orbitals of 14 Cr, 11 M. The 1/2 value for positive rays obtained from hydrogen gas is 1836 times less than that of Cathode rays, funtify it.						
(ix)	The / value for positive rays obtained from hydrogen gas is 1830 times into						
(x)	What is meant by standard enthalpy of neutralization? Give one example						
(m)	Prove that $q_{\lambda} = \Delta E$						
(xii)	Differentiate between system and surrounding	with one example for a	IICI.	5×2=16			
PRODUCTION OF	tempt any right parts.	of concess needed.		2			
(0)	Write down factors affecting relation lowering Define Solubility. What are Solubility Curves	 Give numes only. 		1+			
(10)	In CuSO ₄ , $5H_2O$, four water molecules are	are had with Curt into	while one water molecule				
finis				2			
	with SO inn. Give reason.	and and		1+1			
tiv)	What is Instantaneous and Average Rate of re- Write Spectrometry and Optical Rotation Met	action.	on of rate of traction.	1+1			
(v)	Define Catalysis. Give only one characteristic	of catalyst.	Indiana in the second	1 + 1			
(vi) (vii)	How rate of filtration can be increased?			1+1			
visi)	What is safe and toliable method for drying the	e crystals?		1+1			
(ix)	Define Distribution Law. What is distribution	spectarient?		2			
00	Evaporation causes cooling Junify. Why electrical conductivity of metallic solids	Lancace has been proportion	temperature?	2			
(m)	Why electrical conductivity of metanic tonical What is cubic close packing and hexagonal clo	me macking?		1+			
(sti)	What is cubic close packing and recognition			6×1=12			
	tempt any six parts. Why Helium does not exist in distance form?						
(i) (ii)	with a to Consider the Covariant Book! 12196 cm	Champie.					
(iii)	Instife that Covalent Bonds in directional in in	ghare					
(iv)	What is Common Ion Effeut?						
(v)	What is Buffer Capacity?						
(vi)	What is pK _a ? Give its significance.						
(vii)	Define Electrochemistry.	Mail					
em)	Calculate the exidation number of Mn in E)	and a					
(is)	Define Electrolytic Conduction.	SECTION-II					
			VARIABLE TO SEE	3×8-24			
HOI	Amount any three questions. What is stricklemetry? Give assumptions me.	micos two important for	es which help to perform the	meichiometric			
(1)	The state of the s						
(b)	The Annual Property and the second se	ediant occupying a ver	sel of volume 13 dm" at 37"	C			
	of t aemoighers. The manes of	headrogen and become a	re 0.5g and 0.12g respectively	E			
	on the late the partial pressures in ther of each 5	AND HER DECEMBER.		1+3-4			
(x)	Milhor and Liquid Crystals? Give these three to	NCS ID GREET THE		1+3=4			
(b)	State First Law of Thermodynamics. Also pro	we that $\Delta L = q_{\star}$	and the short	4			
1243	Write down Millikan's Oil Drop Method for the	be measurement of that	tool an electron.				
(%)	Bureric acid, C.H.COOH, is a weak mons-	basic acid (K = 6.4	× 10 mol dm). What is	me Per			
	of a solution containing 7.2g of sodium benno	ate in one det of 0.02	mol dm" heranic acid?	4			
160	State agests lates of VSEPR Theory			- 4			
(b)	The state of the s	Electrode patential?	-X	ment (77) = 4			
100	(Construi Describe in detail the Elevation of Boiling Po	rtime 01 + diagram 01 +	electrode potential measures	4			
	I me with a located the Figuretion of Holling Pro-						