	§ *	.		MITN-	Roll No				
Paper C			2019 (A)						
Number	2481	INTERMEDI	ATE PART-I	(11 th CLASS)					
CHEMISTRY PAPER-I (NEW SCHEME) GROUP-I TIME ALLOWED: 20 Minutes OBJECTIVE 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 bubble in front of that question number. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve questions on this sheet of OBJECTIVE PAPER. Q.No.1									
(1)	The largest number (A) 3.6 g of H_2 0	er of molecules are p O (B) 4.8g of C	resent in: C ₂ H ₅ OH (C)	12.8g of CO	(D) 5.4g of N_2O_5				
(2)	One mole of SO_2 (B) 18.1×10^{23} m	contains: olecules of SO_2		$< 10^{23}$ atoms of O atoms of S	(D) 4 gram atoms of SO_2				
(3)	The comparative (A) The size of pa (C) Temperature ((B)	R_f values of sol	ohy depend on: utes natograph <mark>ic tank</mark> used				
(4)	The deviation of ϵ (A) -10° C and S	a gas from ideal beha 5.0 atm (B) -10°C	aviour is maxim and 2.0 atm	um at: (C) 100°C and 2	2.0 atm (D) 0°C and 2.0 atm				
	(A) $NH_3 > SO_2$	of diffusion of gases $> C\ell_2 > CO_2$ $> CO_2 > NH_3$	(B) NH ₃						
(6)	Amorphous solid: (A) Have sharp m (C) Have perfect a			o clean cleavage v ssess small region	when cut with knife s of orderly arrangement				
(7)	Diamond is a bad (C) There are no t (D) Is transparent	conductor because: free electrons presen to light	(A) It has a t in the crystal o	tight structure of diamond to con-	(B) It has a high density duct electricity				
(8)	In the ground state (A) In the nucleus	te of an atom, the elose (B) In the second	ectron is present shell (C) Near	: rest to the nucleus	(D) Farthest from the nucleus				
(9)	Quantum number (A) $n = 2$ $\ell = 1$	values for 2P orbita (B) $n = 1$ $\ell = 1$	als are: 2 (C) $n=1$	$\ell = 0$ (D)	$n=2$ $\ell=0$				
(10)	The number of bo (Λ) One σ and σ	ands in Nitrogen moleone π (B) One σ	lecule is: and two π (C) Three sigma o	nly (D) Two σ and one π				
(11)	Which of the Hye (A) HCl	drogen halides has t (B) HBr	he highest perce (C) HF	ntage of ionic cha (D)	racter? HI				
(12)	(A) Enthalpy cha	ange (B) Heat of co	ombustion (C)	Bond energy (I	ure and pressure is called: O) Internal energy change				
(13)	The solubility properties Ag^+ ions in the sign (B) 1.41×10^{-5}	solution is:	$(A) 2.0 \times$	$10^{-10} mol dm^{-3}$	num concentration of $4.0 \times 10^{-20} \text{ mol dm}^{-3}$				
(14)	(A) 5.85 % solu (C) 6.0 % soluti		oride (I	3) 18.0% solutionD) All have he sar	ne boiling point				
(15)	18g of Glucose (A) $\frac{1}{5}$	is dissolved in 90g o (B) 5.1	of water. The re $(C) \frac{1}{51}$	lative lowering of (D)	vapour pressure is equal to:				
(16)	If the salt bridge	e is not used between rapidly (B) Decrea	the two half ce	ells, then the volta Does not change	ge: (D) Drops to zero				
(17)	If the rate equal in large excess.	tion of a reaction 2, then the order of re	action is: (A	(B) 2 (B) 2 ((A)-28000 (MULTAN)				

2019 (A)

KOII NO: MTN-11-91-19

INTERMEDIATE PART-I (11th CLASS)

CHEMISTRY PAPER-I (NEW SCHEME)

TEME) GROU

TIME ALLOWED: 2.40 Hours

8.(a)

(b)

(b)

9.(a)

SUBJECTIVE

MAXIMUM MARKS: 68

NOTE: - Write same question number and its part number on answer book, as given in the question paper.

SECTION-I

		SECTION-1	$8 \times 2 = 16$
2.		Attempt any eight parts.	0 ^ 2 - 10
	(i)	Why do the isotopes have same chemical but different physical properties?	
	(ii)	Define gram formula. Give two examples.	
	(iii)	What is Stoichiometry? Give its two assumptions.	
	(iv)	Why is there a need to crystallize the crude product?	
	(v)	What do you mean by solvent extraction? Which law does control it?	
	(vi)	How is absolute zero explained by drawing graph?	
	(vii)	Calculate the value of gas constant "R" in S.I units.	
	(viii)	Derive Avogadro's Law from Kinetic molecular theory of gases.	
	(ix)	Lighter gases diffuse more rapidly than heavier gases. Give reasons. One molal solution of urea is more dilute than one molar solution. Why?	
	(x)	Define Raoult's Law. Give one of its mathematical expression	
	(xi)	What is discontinuous solubility curve? Give one example.	
4	(xii)		$8 \times 2 = 16$
3.	215	Attempt any eight parts. Why do fish and plants in ponds survive under blanket of ice during cold winters?	
	(i)	D. C. Delamonshiom Give one eventle	
	(ii)	Freshly cut metals show the property of metallic luster. Comment on the statement	A •
	(iii)	Write down any two properties of Molecular Solids.	
	(iv)	with down any two properties of the elements o	
	(v)	Calculate the mass of electron from its e_m value.	المحلف
	(vi)	Justify the statement that angular momentum of an electron revolving in orbit is qua	ntized.
	(vii)	the deal material of electron variety by Davisson and Cleffic :	
	(viii)	State Authau principle. Write electronic configuration of Sodium (11 Na) 1000 wing	this principle.
	(ix)	Define the given terms: (a) common ion effect (b) solubility product	
	(x)	What is the difference between heat and temperature?	
	(xi)	Define pseudo first order reaction. Given one example.	
	(xii)	the nativation of catalyst	$6 \times 2 = 12$
4.		Attempt any six parts.	0 × 2 - 12
	(i)	Differentiate between exothermic and endothermic reactions.	
	(ii)	Define Ionization energy. How does it vary in periodic table?	
	(iii)	lonic radii of anions are greater than their parent atoms. Why?	
	(iv)	CO_2 is non-polar whereas H_2O is polar molecule. Give reason.	
	(v)	Define Dipole Moment. Give its various units.	
	(vi)	State 1st law of thermodynamics.	
	(vii)	Define oxidation number. Calculate oxidation number of 'Mn" in KMnO ₄ .	
	(vili) Differentiate between a primary cell and a secondary cell.	
	(ix)	Write electrochemical reactions taking place in Alkaline battery.	
		SECTION-II	2 6 - 24
Ī	NOTE:	- Attempt any three questions.	$3\times8=24$
5	5.(a)	Describe combustion analysis to determine mass percentages of C, H and O in	
		an organic compound.	4
	(b)	What is meant by Hydrogen Bonding? How it explains the helix structure of proteins	? 4
,		Write defects in Bohr's model of an atom.	4
3	(b)	One mole of methane gas is maintain at 300K its volume is 250Cm^3 .	
	(0)	Calculate the pressure exerted by the gas.	4
			4
	7.(a)	What is Electron Affinity? How does it show variation along groups and	4
	(b)	periods in the periodic table? Describe the Hess's Law of Constant Heat Summation and give one example to expla	
	A Comment of the Comment		

 $N_{2(g)}$ and $H_{2(g)}$ combine to give $NH_{N(g)}$. The value of K_C in this reaction at $500^{\circ}C$

How does Arrhenius equation help us to calculate the energy of activation of a reaction?

Write Landsberger's method for determination of elevation of boiling point.

Define voltaic of Galvanic cell. Write its function with chemical equations.

is 6.0×10^{-2} . Calculate the value of K_P for this reaction.

21-2019(A)-28000 (MULTAN)

•	Roll No. MTN-11 52-19
2019 (A)	
Paper Code	(11th CLASS)
Number: 2482 INTERMEDIATE PARTS	
(KAMIOON CCHEME)	GROUP-II MAXIMUM MARKS: 17
CHEMISTRY PAPER-I (NEW SCHEME) TIME ALLOWED: 20 Minutes Note: You have four choices for each objective type question nur Note: You have four choices for each objective type question nur Note: You have four choices for each objective type question nur	LV D
TIME ALLOWED: 20 Minutes	on as A, B, Candon on as A, B, C
TIME ALLOWED: 20 Minutes Note: You have four choices for each objective type question nur think is correct, fill that bubble in front of that question nur Cutting or filling two or more bubbles will result in zero may Cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may cutting or filling two or more bubbles will result in zero may	ark in that question. Attempt as many question.
BUBBLES are not filled. Do not solve questions Q.No.1 (1) 27g of Al will reacts completely with how much many many many many many many many many	ass of O_2 to produce $A_2 = 0$ $O_2 = 0$ (D) 24 g of Oxygen
(1) 27g of 7f Will 18 (B) 16 g of Oxygen (C) (A) 8 g of Oxygen (C)	f Öxygen:
has of moles of CO2 which contain olds	CD 1.50
(A) 0.23	contained of the solute
(3) Solvent extraction is an equitable (C) Amount of the solven (C) Amount of the solven (C)	vent used (D) The man
(B) Distribution Law (C) Amount of all of the control of the contr	esemble ideal gas it:
	ge and 'b' is small
(C) in the small and	
to a CO is maximum at	a (C) 0°C and 2atm (D) 273°C and 1atm
(5) The molar volume of Co (B) 127°C and later	n (C) 0°C and 2atm (D) 273 C and
(A) STP (6) Actions and chloroform are soluble in each other	m All these
forces are the only forces pro	sent among the: stoms of Helium in gaseous state at high temperature stoms of Helium in gaseous state at high temperature
	Molecules of Hydrogen Chloride gas
(C) Molecules of solid forms	
(8) The nature of positive rays depend on: (B) The nature of the electrode (B) The nature of the electrode	ure of the discharge tube
(A) The nature of the electrode (A) The nature of the electrode (C) The nature of the residual gas (C) The nature of the residual gas	tron goes into: (A) 7f (B) 7s (C) 7p (D) 7d coole moment?
(c) the matter of the entering elect	ron goes into: (8)
(9) When 6d orbital is complete, and (10) Which of the following molecules has zero dip	pole moment? (D) BF_3
(16) [(11) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(1) [(D)
(A) NH ₂	(A) 0 (B) 1 (C) 2 (D) 3
(11) The Bond order of N_2 molecule is: (12) For a given process, the heat changes at cons	stant pressure q_p and at constant volume q_s
(12) For a given process, the heat changes at con-	a
are related to each other as.	$(C) \circ \mathcal{A} = (D) q_p = \frac{1}{2}$
$(A) q_p = q_r $ (B) $q_p < q_r$	Barium chloride and precipitate is
(A) $q_p = q_r$ (B) $q_p < q_r$ (B) An excess of aqueous Silver nitrate is added with the filtration. What are the main io	ns in the filtrate?
removed by intra-	and Ba ⁺⁺ and NO ₃
(A) 40 and NO3 only	NOT and CPT
(C) Ba'' and NO ₃ (D) Ba' (The molal boiling point constant is the ratio	of the elevation in boiling point to:
(14) The molal boiling point constant is the	raction of solvent (D) Mole fraction of solute
(A) Molarity (B) Worlding	1. High point?
(A) Molarity (B) Wolarity Which of the following solutions has the h (A) 5.85 % solution of Sodium Chloride (A) 5.85 % solution of Urea	(B) 18.0 % solution of Glucose
(A) 5.85 % Solidon of	(D) all have the same
(C) 6.0 % solution of Urea (16) The unit of the rate constant is the same a	s that of the rate of reaction in.
(D) Second Old	ICI I CAOCIO
(A) First order reaction (B) Second of the following statements is not	correct about Galvanic cell?
	(B) Reduction occurs at anode (D) Reduction occurs at Cathode
(C) Cathode is positively charged	(D) Reduction occurs at (D) (A)-16000 (MULTAN)
(x) x	22(Obj) (A)-2019(A)-16000 (MULTAN)

KOII NO: MTN-11-61-19 2019 (A)

INTERMEDIATE PART-I (11th CLASS)

CHEMISTRY PAPER-I (NEW SCHEME) GROUP-I SUBJECTIVE

TIME ALLOWED: 2.40 Hours

MAXIMUM MARKS: 68

NOTE: - Write same question number and its part number on answer book, write same question name.

as given in the question paper.

SECTION-I

 $8 \times 2 = 16$

	110 %		$8 \times 2 = 10$
2.	(ii) De	tempt any eight parts. hy do the isotopes have same chemical but different physical properties? effine gram formula. Give two examples. That is Stoichiometry? Give its two assumptions.	
	(iv) W	/hy is there a need to crystallize which law does control it? /hat do you mean by solvent extraction? Which law does control it?	
	(vi) H (vii) C	low is absolute zero explained "R" in S.I units. Calculate the value of gas constant "R" in S.I units. Derive Avogadro's Law from Kinetic molecular theory of gases.	
	(ix) L	Lighter gases diffuse more lapidly with the more molar solution. Why? One molal solution of urea is more dilute than one molar solution. Why?	8 × 2 = 16
		What is discontinuous solubility carry	8 × 2 = 10
3	(ii)	Why do fish and plants in points survived by the property of metallic luster. Comment on the statemen	
	(iv) (v)	Write down any two properties of the	
	(vi) (vii)	Justify the statement that angular momentum by Davisson and Germer? How was dual nature of electron verified by Davisson of Sodium (11 Na) following	ng this principle.
	(viii) (ix)	Define the given terms: (a) community and temperature?	
	(x) (xi) (xii)	Write down two examples to explain the activation of catalyst.	$6\times 2=12$
	4. (i) (ii)	Differentiate between exothermic and endothermic reactions. Define Ionization energy. How does it vary in periodic table? Define Ionization energy. How does it vary in periodic table?	
	(iii) (iv)	lonic radii of anions are greater than their patterns CO_2 is non-polar whereas H_2O is polar molecule. Give reason. Define Dipole Moment. Give its various units.	
	(v) (vi) (vii)	State 1st law of thermodynamics. Calculate oxidation number of 'Mn" in KMnO ₄	
	(viii (ix)	Differentiate between a primary cert and a second Alkaline battery.	$3 \times 8 = 24$
	NOTE:	- Attempt any three questions. Describe combustion analysis to determine mass percentages of C, H and O in	**
	6 ()	Describe compusion analysis to	4 eins? 4
	(b)	an organic compound. What is meant by Hydrogen Bonding? How it explains the helix structure of protections meant by Hydrogen Bonding?	4
	6.(a) (b)	Write defects in Bohr's model of an atom. One mole of methane gas is maintain at 300K its volume is 250 Cm ³ . Calculate the pressure exerted by the gas.	4
	7.(a)	What is Electron Affinity? How does it show variation along groups are periods in the periodic table? periods in the periodic table? Periods in the periodic table?	xplain it. 4
	(p)	Describe the riess's Law of Constant $N_{2(g)}$ and $H_{2(g)}$ combine to give $NH_{3(g)}$. The value of K_C in this reaction a	t 500°C
	8.(a)	is 6.0×10^{-2} . Calculate the value of K_p for this reaction. How does Arrhenius equation help us to calculate the energy of activation of a result of the control o	
	(b)		4 4
	9.(a) (b)	- de la la configuration de la configuration d	