Paper Code		2019 (A)		koll No	
Numbe	1185	INTERMEDIATI	E PART-II (12 th CLA	ASS)	
CHEN	MISTRY PAP	ER-II (NEW SCE Minutes	HEME) GROUP-I OBJECTIVE	MAXIMUM MARKS: 17	
think is Cutting question case B	s correct, fill that b g or filling two or r ons as given in obje UBBLES are not fi	oubble in front of that one of that one output the could be seen that of the could be seen that of the could be seen to b	question number. Ose ii It in zero mark in that q	C and D. The choice which you narker or pen to fill the bubbles. uestion. Attempt as many nk. No credit will be awarded in BJECTIVE PAPER.	
Q.No.1 (1)	Select from the fol (A) $CH_3 - CH_2 -$		CH_3 (C) CH_3COOH		
(2)			or artificial ripening of fr		
	(A) Ethene	(B) Ethyne	(C) Methane	(D) Propane	
(3)		bons are the derivatives		(D) Cyclohexane	
		of paraffins (B) Alken			
(4)	When CO_2 is made the product formed	e to react with ethyl mag l is:	nesium iodide, followed		
	(A) Propane	(B) Propanoic acid	(C) Propanal	(D) Propanol	
(5)	According to Lewi	s concept ethers behave	as:		
	(A) Acid	(B) Base	(C) Catalyst	(D) Enzyme	
(6)	Which of the follow	ving will have the higher	st boiling point?		
	(A) Methanal	(B) Ethanal	(C) Propanal	(D) 2 – Hexanone	
(7)	Which of the follow	wing is used in the manu	facture of synthetic fibre	?	
	(A) Formic acid	(B) Oxalic acid	(C) Carbonic acid	(D) Acetic acid	
(8)	Which one of the following statements about glucose and sucrose is incorrect?				
	(A) Both are solu (C) Both are Carl	oohydrates (D) l	Both are naturally occurri Both are disaccharides		
(9)	In which of these processes are small organic molecules made into macromolecules?				
	 (A) The cracking of petroleum fractions (B) The fractional distillation of crude oil (C) The polymerization of ethene (D) The hydrolysis of proteins 				
(10)	Micronutrients at (A) 4 – 40 g	e required in quantity ra (B) 6 – 200 g	inging from: (C) 6 200 kg	(D) 4 – 40 kg	
(11)	Ecosystem is the	smaller unit of:			
	(A) Lithosphere	(B) Hydrosphere	(C) Atmosphere	(D) Biosphere	
(12)	Which statement			d and ustor of heat	
	(C) All the metal	s are good conductors of s form positive ions.	(D) All the	e metals are good conductor of heat. e metals form acidic oxides.	
(13)	Which of the fol	lowing Sulphates is not	soluble in water?	(D) Deriver Sulphoto	
	(A) Sodium Sulp			ate (D) Barium Sulphate	
(14)	Chemical composition (A) $Ca_2B_6O_{11}$.	osition of Colemanite is: SH_2O (B) CaB_4O_7 .4	H_2O (C) $Na_2B_4O_7.4$	H_2O (D) $CaNaB_5O_9.8H_2O$	
(15)	Among group V	A elements, the most ele	ectronegative element is:		
	(A) Sb	(B) N	(C) P	(D) As	
(16)	The strongest ac (A) $HC\ell O$	id is: (B) $HC\ell O_2$	(C) HClO ₃	(D) <i>HClO</i> ₄	
(17)	Coordination nu (A) 2	The sumber of Pt in $PtC\ell$ (B) 4	NO_2) $(NH_3)_4$] is: (C) 1	(D) 6	
	(/ -		23(Obj)(26262	*)-2019(A)-22000 (MULTAN)	

Roll No: I Lass 2019 (A)

		INTERMEDIATE PART-II (12 CLASS)
CI	HEMI	STRY PAPER-II (NEW SCHEME) GROUP-I
TI	ME AI	LOWED: 2.40 Hours SUBJECTIVE MAXIMUM MARKS: 65
NO	TE V	Write same question number and its part number on answer book,
110	, 1 12.	is given in the question paper.
	•	SECTION-I
2.		Attempt any eight parts. $8 \times 2 = 16$
4.	(:)	Why does ionic character of halides decrease from left to right in a period?
	(i)	I anthonide contraction control the atomic sizes of elements of o and / periods:
	(ii)	Why is Potassium Superoxide used in breathing equipments of mountaineers and in space craft?
	(iii)	How is boric acid prepared from colemanite?
	(iv)	What is effect of heat on boric acid?
	(v)	What is Asbestos? Give its two uses.
	(vi)	
	(vii)	Give the reactions of mails as a
	(viii)	What is aqua regia? How does it dissolve gold?
	(ix)	What happens when following compounds are heated with conc. H_2SO_4 ?
		(a) $C_6H_{12}O_6$ (b) H_5C_2OH
	(x)	What are macro-nutrients? Give their names.
	(xi)	Give four properties of a good fertilizer.
	(xii)	State the term "Dissolved Oxygen (D.O.)". What is it's use?
3.	,	Attempt any eight parts
	(i)	Define the term Carbonization. Indicate three fractions obtained by the carbonization of coal.
	(ii)	Write structural formulas of the followings:
	. ,	(i) 3-n-Propyl-1, 4-Pentadiene (ii) Divinyl acetylene
	(iii)	Define heat of compustion with example.
	(iv)	How will you prepare m-chloronitrobenzene from benzene in two steps?
	(v)	Write two objections that were raised on Kekule's structure for benzene molecule.
	(vi)	Write reaction of ethyl magnesium chloride with water.
	(vii)	Write an excellent method for the preparation of simple alkyl iodides. Write attractural formulas of these compounds: (i) Ethoxy propane (ii) Lactic acid
	(viii)	Wille Structural formulas of these compounds.
	(ix)	How ethanol is denatured to avoid its use for drinking purpose? Write the structural formulas of these compounds: (i) Phthalic acid (ii) Acetic anhydride
	(x)	Wille the structural formation of these companies
	(xi)	What is zwitter ion? How it is formed?
	(xii)	What are essential and non-essential amino acids?
4.		Attempt any six parts. $6 \times 2 = 12$
7.	(i)	What are disproportionation reactions? Explain your answer with suitable example.
	(ii)	HF is weaker acid than $HC\ell$. Why?
	(iii)	Arrange these ions in order of increasing size. F^- , I^- , $C\ell^-$, B_r^-
		Why does damaged tin plated iron get rusted quickly?
	(iv)	Describe general mechanism of base-catalyzed addition reaction of carboxyl compounds.
	(v)	How will you distinguish between ethanal and propanone?
	(vi) (vii)	Draw cyclic structure of glucose and fructose.
	(viii)	
	(ix)	What is meant by hardening of oil?
	(11)	SECTION-II
TA.T	OTE: -	Attempt any three questions 8 x 3 = 24
		What are hydrides? Write down their classification and the properties of the covalent hydrides. 4
5.(a)		Describe the preparation of <i>NaOH</i> by Nelson's cell.
	(b) .(a)	How will you manufacture wrought iron from cast iron?
O.	(b)	What is smog? Explain the pollutants which are main cause of photochemical smog.
7.(a)		Define hybridization and explain the structure of Ethyne on the basis of hybridization.
(b)		What are Friedel-Crafts alkylation? Explain by giving two examples with mechanism.
8	.(a)	Write down structural formulae for the following compounds:
U	.()	(i) Isobutylene (ii) But-1-ene-3-Yne
		(iii) 2, 5-Heptadiene (iv) Vinyl bromide
	(b)	Explain following terms using ethyl alcohol as an example: $2+2$
		(i) Esterification (ii) Ether formation (iii) Oxidation (iv) Dehydration

What are Grignard reagents? How can you prepare a primary, secondary and a tertiary alcohol

23-2019(A)-22000 (MULTAN)

(i) NH_2OH (ii) NH_2-NH_2 (iii) $H_2N-NHC_6H_5$ (iv) 2, 4-DNPH

9.(a)

(b)

with the help of Grignard reagent?

Write reaction equation for reaction of ethanal with: