(D) Propanol

(D) Enzyme

(D) 2 - Hexanone

(D) Acetic acid

(D) 4 - 40 kg

(D) Biosphere

23(Obj)(12)-2019(A)-22000 (MULTAN)

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Paper	Code		2019 (A)	Roll No.	6/1
Numb	er: 448	31 INTERME	DIATE PART-II (1	2 th CLASS)	
CHE	MISTRY	PAPER-II (NE	W SCHEME) GR	OUP-I	
TIME	ALLOWER	D: 20 Minutes	OBJECTIV	<u>E</u> MAXIMUM MARK	.S: 1
				as A, B, C and D. The choice which	
				er. Use marker or pen to fill the bub	bles.
				in that question. Attempt as many thers blank. No credit will be award	ed in
case B	UBBLES are			teet of OBJECTIVE PAPER.	
Q.No.			*		
(1)		nent is incorrect?			
		etals are good conduc etals form positive ior		All the metals are good conductor of leads the metals form acidic oxides.	reat.
(2)	Which of the	following Sulphates is	not soluble in water?		
	(A) Sodium S	Sulphate (B) Potassi	um Sulphate (C) Zinc	Sulphate (D) Barium Sulphate	
(3)		mposition of Coleman 11.5/1 ₂ O (B) CaB ₄		407.4H2O (D) CaNaB5O9.8H2O	
(4)	Among grou	p VA elements, the m	ost electronegative elem	ent is:	
	(Λ) Sb	(B) N	(C) P	(D) As	
(5)	The stronges	t acid is:			
	(A) - <i>HClO</i>	(B) $HC\ell O_1$	(C) HCℓO ₃	(D) HClO ₄	
(6)	Coordination	number of Pt in [F	$P(C\ell(NO_2)(NH_3)_4]$ is	s:	
1 . , 1 .	(A) 2	(B) 4	(C) 1	(D) 6	
(7)	Select from t	the following the one $CH_2 - OH$ (B) CH_2	which is alcohol. $3 - O - CH_3$ (C) CH-	$_{3}COOH$ (D) $CH_{3} - CH_{2} - Br$	
(8) ₍₁₎	11.10	1 - 1	is used for artificial riper	20 NY 2021 1945	
* 5 e- 2*	(A). Ethene	(B) Ethyne	(C) Methane	(D) Propane	
(9)	Aromatic hy	drocarbons are the de	rivatives of:		
		series of parattins (P) Alkene (C) Benzen	ne (D) Cyclohexane	

(10) When CO2 is made to react with ethyl magnesium iodide, followed by acid hydrolysis,

(B) Propanoic acid (C) Propanal

Which one of the following statements about glucose and sucrose is incorrect?

In which of these processes are small organic molecules made into macromolecules?

(C) Catalyst

(C) Propanal

(C) Carbonic acid

(B) Both are naturally occurring

(B) The fractional distillation of crude oil

(D) The hydrolysis of proteins

(D) Both are disaccharides

(C) 6 - 200 kg

(C) Atmosphere

the product formed is:

(11) According to Lewis concept ethers behave as:

(B) Base

Which of the following will have the highest boiling point?

(B) Oxalic acid

Which of the following is used in the manufacture of synthetic fibre?

(B) Ethanal

Micronutrients are required in quantity ranging from:

(B) 6 - 200 g

(B) Hydrosphere

(A) Propane

(A) Acid

(A) Methanal

(A) 4 - 40 g

.

(A) Lithosphere

(A) Formic acid

(A) Both are soluble in water (C) Both are Carbohydrates

(A) The cracking of petroleum fractions

(C) The polymerization of ethene

(17) Ecosystem is the smaller unit of:

(12)

(13)

(14)

(15)

(16)

2019 (A)

Roll No

INTERMEDIATE PART-II (12th CLASS)

CHEMISTRY	PAPER-II	(NEW SCHEME)	GROUP-I
CHEMINA	TAL MIN-11	(ITE IT DCITEITE)	OKOUI-1

TIME ALLOWED: 2.40 Hours

SUBJECTIVE

MAXIMUM MARKS: 68

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

as given in the question paper. SECTION-1 $8 \times 2 = 16$ 2. Attempt any eight parts. (i) Why does ionic character of halides decrease from left to right in a period? How does Lanthanide contraction control the atomic sizes of elements of 6th and 7th periods? (ii) Why is Potassium Superoxide used in breathing equipments of mountaineers and in space craft? (iii) (iv) How is boric acid prepared from colemanite? (v) What is effect of heat on boric acid? (vi) What is Ashestos? Give its two uses. Give the reactions of nitric acid with: (vii) (a) Arsenic (b) Antimony What is aqua regia? How does it dissolve gold? (viii) What happens when following compounds are heated with conc. H_2SO_4 ? (ix) (a) $C_6H_{12}O_6$ (b) H_5C_2OH (x) What are macro-nutrients? Give their names. Give four properties of a good fertilizer. (xi) State the term "Dissolved Oxygen (D.O.)". What is it's use? (xii): 3. $8 \times 2 = 16$ Attempt any eight parts. (i) Define the term Carbonization. Indicate three fractions obtained by the carbonization of coal. Write structural formulas of the followings: (ii) ... (i) 3-n-Propyl-1, 4-Pentadiene (ii) Divinyl acetylene Define heat of combustion 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. (i) Ethoxy propane (ii) Lactic acid (ix) Howethanol is denatured to avoid its use for drinking purpose? Write the structural formulas of these compounds: (i) Phthalic acid (ii) Acetic anhydride What is zwitter ion? How it is formed? (xii) What are essential and non-essential amino acids? 4. Attempt any six parts. What are disproportionation reactions? Explain your answer with suitable example. (i) (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) (v) Describe general mechanism of base-catalyzed addition reaction of carboxyl compounds. (vi) How will you distinguish between ethanal and propanone? (vii) Draw cyclic structure of glucose and fructose. Define acid number. What is rancidity? (viii) What is meant by hardening of oil? (ix)

SECTION-II

NOTE: - $8 \times 3 = 24$ Attempt any three questions. 5.(a) What are hydrides? Write down their classification and the properties of the covalent hydrides. 4 (b) Describe the preparation of NaOH by Nelson's cell. 6.(a) How will you manufacture wrought iron from cast iron? What is smog? Explain the pollutants which are main cause of photochemical smog. (b) 7.(a) Define hybridization and explain the structure of Ethyne on the basis of hybridization. What are Friedel-Crafts alkylation? Explain by giving two examples with mechanism. (b) 8.(a) Write down structural formulae for the following compounds: (i) Isobutylene (ii) But-1-ene-3-Yne (iii) 2, 5-Heptadiene (iv) Vinyl bromide 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 with the help of Grignard reagent? Write reaction equation for reaction of ethanal with: 4 (i) NH_2OH (ii) $NH_2 - NH_2$ (iii) $H_2N - NHC_6H_5$ (iv) 2, 4 - DNPH 23-2019(A)-22000 (MULTAN)

Number:

INTERMEDIATE PART-II (12th CLASS)

CHEMISTRY	PAPER-II	(NEW SCHEME)	GROUP-II
	요. 프로그램 이 경기를 잃었다고 있다면 없어요?		-

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

Q.No.		ed. Do not solve questions	on this sheet of C	INJECTIVE PAPER.		
(1)	Mark the correct statement: (A) All lanthanides are present in the same group					
	(B) All halogens are	present in the same period	(C) All the alkali	metals are present in the same gro		
	(D) All the noble gas	ses are present in the same pe	riod			
(2)	Chile saltpetre has the (A) NaNO ₃	e chemical formula: (B) KNO ₂	(C) $Na_2B_4O_7$	(D) Na ₂ NO ₃ .H ₂ O		
(3)	Which metal is used	in the thermite process becau	se of its activity?			
	(A) Iron	(B) Copper	(C) Aluminium	(D) Zinc		
(4)	Which of the following	ing species has the maximum	number of unpair			
	(A) O ₂	(B) O_2^+	(C) O_2^-	(D) O_2^{2-}		
(5)	Which of the follow	ring hydrogen halide is the w	eakest acid in solu	ution?		
	(A) HF	(B) HBr	(C) HI	(D) HCl		
(6)	Which of the follow	ing is a non-typical transition	element?			
	(A) Cr	(B) Mn	(C) Zn	(D) Fe		
(7)	The state of hybridiz	zation of carbon atom in meth	ane is:			
	(A) sp		(C) sp ³	(D) dsp^2		
(8)	Preparation of veget	able ghee involves:				
20,500	(A) Halogenation		(C) Hydroxyla	tion (D) Dehydrogenation		
(9)	Which of the follow	ing can be used as a catalyst	in Friedel-Crafts	reactions?		
	Control Carlotte Carlotte Control Carlotte Carlo	(B) <i>HNO</i> ₃	(C) BeCl ₂	(D) NaCℓ		
(10)	$S_N 2$ reactions can b	$S_N 2$ reactions can be best carried out with:				
	(A) Primary alkyl ha	lides (B) Secondary alkyl h	alides (C) Tertis	ary alkyl halides (D) All of these		
(11)	Ethanol can be conv	verted into ethanoic acid by:				
	(A) Hydrogenation	(B) Hydration	(C) Oxidation	(D) Fermentation		
(12)	Which one of the fo	llowing will have the highest	boiling point?			
	(A) Mathanal	(B) Ethanal	(C) Propanal	(D) 2 ~ Hexanone		
(13)	Amyl acetate has th	e flavour of:				
	(A) Apricot	(B) Banana	(C) Orange	(D) Jasmine		
(14)	Which of the follow	ving elements is not present in	all proteins?			
	(A) Carbon	(B) Hydrogen	(C) Nitrogen	(D) Sulphur		
(15)	Vegetable oils are:					
	(A) Unsaturated fatt (C) Glycerides of sa			s of unsaturated fatty acids oils obtained from plants		
(16)	Which woody raw	material is used for the manu	facture of paper p	ulp?		

(A) Cotton (B) Bagasse (C) Poplar

(17) A single Chloride free radical can destroy how many Ozone molecules? (A) 100

(B) 100000

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(C) 10000

(D) Rice straw

(D) 1000

2019 (A) Roll No - INTERMEDIATE PART-II (12th CLASS)

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CHEMISTRY	PAPER-II	(NEW SCHEME)	GROUP-II

MAXIMUM MARKS: 68

TIME ALLOWED: 2.40 Hours SUBJECTIVE INOTE: - Write same question number and its part number on answer book, as given in the question paper.

SECTION-I

2.		Attempt any eight parts.	$8 \times 2 = 16$	
	(i)	Why ionization energy decreases down the group?		
	(ii)	Why metallic character increases from top to bottom in a group	of metals?	
	(iii)	Why 2 % gypsum is added in the cement?		
	(iv)	Why is CO_2 a gas at room temperature while SIO_2 is a solid?		
	(v)	Name four important Boric acids.		
	(vi)	Write down the formulas of: (i) Kaolin (Pottery clay	y) (ii) Zircon	
	(vii)	Write down the structural formulas of: (i) Nitrous acid (HNC	O_2) (ii) Nítric acid (HNO_3)	
	(viii)	Write down two uses of Nitric acid.		
	(ix)	Complete and balance the following equations:		
		(i) $H_1S + NO \longrightarrow$ (ii) $NO_2 + H_2O -$		
	(x)	Name eight macronutrients of fertilizers.		
	(xi)	Write down two important raw materials used for the manufact	ture of cement	
	(xii)	What is chemical oxygen demand (COD)? How it can be dete		
3.	()	Attempt any eight parts.	$8 \times 2 = 16$	ř
	(i)	What are heterocyclic compounds? Give two examples.	The second second	
	(ii)	How is 2-Butyne converted into Cis-2-Butene?		
	(iii)	How would you establish that ethylene contains a double bond	1?	
	*	Justify your answer with a chemical reaction.		
	(iv)	Give two objections to Kekule's formula of Benzene.		
	(v)		Hexane (b) Sodium benzoate	79/7
	(vi)	Give reactions of ethyl chloride with: (a) Sodium n		
	(vii) (viii)		(b) Cyanogen Chlor	ide
	(ix)	What is denaturing of alcohol? State term esterification with an example.	40	
	(x)	Give a reaction in which - $COOH$ group is reduced to $-CH_3$	group	
			group.	
	(xi) (xii)	What is Zwitter ion? Give an example. How is vinegar prepared from ethanol?		
4.	(311)	Attempt any six parts.	$6 \times 2 = 12$	2
886	(i)	Give reaction of bleaching powder with excess of Sulphuric		3
	25.5	How the activity of bleaching powder is measured.		
	(ii)	Give two uses of Argon.		
	(iii)	Give reactions of $X_e F_4$ with (i) Hg (ii) NH_3	3	
	(iv)	Under what conditions, does aluminium corrode?		
	(v)	Give any four uses of Formaldehyde.		
	(vi)	How will you distinguish between methanal and ethanal?		
	(vii)	Define saponification number.		
	(viii)			
	(ix)	What are thermoplastic polymers? Give example.		
		SECTION-II		
		Attempt any three questions.	$8 \times 3 = 24$	
	(a)	Define electron affinity. Explain trends of electron affinity in		27
	(b)	Complete and balance the given equations: (i) $Mg(C)$	$(2H)_2 \xrightarrow{Heat} 4$	
		(ii) $Li_2O + H_2O \longrightarrow$ (iii) $Na_2O_2 + H_2O \longrightarrow$	(iv) $NaNO_3 \xrightarrow{Heat}$	
6.	(a)	Write down the chemical equations for the reaction of K_2Cr_1		
		A DECEMBER OF THE PROPERTY OF	iv) NaCl	
	(b)	What is smog? Write down the conditions required for its form	10 N	
		Define Hybridization and explain the structure of ethyne on its		
		What are aromatic hydrocarbons? How are they classified?	4	
		How will you convert ethyne to? (i) Ethene (ii) Acetal dehyde	(iii) Divinyl acetylene (iv) Gly	oxal 4
	(b) '	Write down any two methods for the preparation of phenol.	4	
9	(a) l	How C ₂ H ₅ -Mg-Br reacts with (i) CO ₂ (ii) HCHO (iii)	$CH_3 - CO - CH_3$ (iv) CH_3CHC) 4
		Explain Aldol condensation with its mechanism.	4	
			9(A)-10000 (MULTAN)	
		CORNER (1947) (1973) (1973)		