	1 - 2 1 - 2	1.					and a	
	6 11/	aminus. Please write v	our Roll No. in the spac	e pro	ovided and sign.	Roll	No-	
- 121 - N		inter Part – II)	(Session 2015-17 & 20	016-	18) Sig. of			
, Cho		y (Objective)	Group – l		aper (II)			
Tim	Allo	wed - 20 minutes	PAPER COD	E 4	481 Maxin		Marks:- 17	
Not	e:- Y	ou have four choices f	or each objective type q	uesti	on as A, B, C and I	). TI	he choice which you	
thin	k is c	orrect; fill that circle	in front of that question	nur	nber. Use marker	or pe	the PAPER CODE	
Cut	ting of	filling two or more of	circles will result in zer	oth s	ides of the Answer	- Sho	eet and fill bubbles	
acco	which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or white							
corr	recting	fluid is not allowed.			Q. 1			
	1. Ma	ark the correct stateme		(C)	All the ellipti	(D)	All the noble gases	
	(A	) All Lanthanides are present in the same	(B) All halogens are present in the same	(C)	All the alkali metals are present	(D)	are present in the	
		group	period		in the same group		same period	
	2. W	hich element is deposit	ted at the cathode during	the	electrolysis of brine	in di	aphragm cell	
	(A	) $H_2$	(B) <i>Na</i>	(C)	$Cl_2$	(D)	$O_2$	
			o group IV A of the peri	odic	table	$(\mathbf{I})$	Oxygen	
		) Barium cidation of NO in air p	(B) Iodine	(C)	Lead	(1)	Oxygen	
		) $N_{2}O$	(B) $N_2O_1$	(C)	$N_2O_4$	(D)	N <sub>2</sub> O <sub>5</sub>	
			ongest between the mole	cule	s of			
	(A	) HF	(B) HCl	(C)	HBr	(D)	[·]]	
	6. Co	oordination number of	Pt in [Pt Cl $(NO_2)(NH)$	3)4]				
	(A	.) 2	(B) 4	R	Pr-	(D)	0	
	7. Et	hers show the phenone ) Position isomerism	(B) Functional group		Metamerism	(D)	Cis-trans isomerism	
		,	isomerism, the second					
	8. β	$-\beta'$ dichloroethyl sul	phide is control by know				12'	
		) Mustard gas	(B) Laughing gas	(C)	Phosgene gas	(D)	Bio gas	
		enzene can not underge	(B) Addition reaction	(C)	Oxidation reaction	(D)	Elimination	
	(1	reaction	(2)		. 1		reaction	
	10. G	rignard reagent is react	ive due to		The polority of	(D)	The polarity of	
	(A	) Presence of halogen	(B) Presence of Mg atom	(U)	The polarity of C-Mg bond	(D)	Mg-X bond	
	11 \	atom bich enzyme is not inv	volved in fermentation of	f star				
	(/	) Diastase	(B) Zymase	(C)	Urease	(D)	Maltase	
	12. C	annizzaro's reaction is	not given by		Deventdebude	(D)	Trimethyl	
	(1	() Formaldehyde	(B) Acetaldehyde	(C)	Benzaldehyde	(D)	acetaldchyde	
	13 W	/hich acid is used in th	e manufacture of synthet	ic fi	bre?			
	(/	) Formic acid	(B) Oxalic acid	(C)	) Carbonic acid	(D)	Acctic acid	
			s is a synthetic polymer.	(0)	Callulara	(D)	Polyester	
	(A	() Animal fat	(B) Starch e needed for the healthy		) Cellulose wth of plants	(D)	1 orgester	
	()	NN.S.P	(B) N, Ca, P	(C)	) N , P , K	(D)	N, K, C	
	16. P	eroxyacetylnitrate (PA	N) is an irritant to human	n bei	ngs and it affects		Hunde	
	()	A) Eyes	(B) Ears	(C	) Stomach	(D)	) Hands	
	17. F	ungicides are pesticide A) Control the growth	(B) Kills insects	(C	) Kills plants	(D)	) Kill herbs	
	(/	of fungus	(		I and a second sec			
		-	<b>271A</b> 1218		10000 (1)			
		1.			(-)			

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	~	Warning:- Please, do not write anything on this question paper except your Roll No. (Session 2015-17 & 2016-18)						
1218 (Inter Part-II)				Paper (II)	5			
	Chemistry (Subjective) Group - 1			Maximum Marks: 68				
	Tin	Allowed 2.40 hours	ON		I 2/1	A.		
		SECT	UN	follos	vings:- 8×2=16			
	2. 0	Answer briefly any EIGHT parts from the followings:- 8×2=16 We O is amphoteric in nature, Justify. (ii) Diamond is bad conductor while graphite is a good						
	(i)	(1) $\Sigma nO$ is amphotoric in matter $\gamma$ is a conductor why?						
		(iv) Write formulae of the following ores.(1) Talc (11) Zircon						
	(iii) (v)	Write two uses of Aluminium.	(vi)	Give	chemistry of Borax-bead Test.			
	(vii)	$P_2O_5$ is a powerful dehydrating agent.	(viii)	What	is aqua Regia? How does it dissolves gold?			
	( ,	Show with two examples.			the test of the second s	1		
	(ix)	What are heterocyclic compounds?	(x)	What	Biochemical Oxygen demand?			
	(1,x)	Give two examples.		I CO areat with (i) Zn (ii) Cu		ì		
	(xi)	What is re?			does $H_2SO_4$ react with (i) Zn (ii) Cu	ł		
	3.	Answer briefly any EIGHT parts from	the fo	llowing	s:- 8×2=16 What do you mean by the term Galvanizing.	L.		
	(i)	Name different forms of Iron and mention		(ii)	what do you mean by me term early a	ł		
		which is the purest form.	/gen	(iv)	Convert ethene to (a) Halohydrin (b) Ethylene oxide	6		
	(iii)	Define functional group and write two oxy	Ben	()				
		containing functional groups. Why alkene is more reactive than benzene	?	(vi)	Write two possible structures of $C_4H_9Cl$ .			
	(v)	willy alkelie is more relation	of	(viii)	How methanol and ethanol can be distinguished;	1		
	(vii)	What is Dow's method for the preparation		( )	give a suitable test for this.	!		
	(ix)	phenol. Describe Tollen's test for the identificatio	n of	<b>(x)</b>	Write any four uses of formaldehyde.	1		
	(1x)	aldehydes			Differentiate between acidic amino acids and	Ċ		
	(xi)	How acetamide is formed from acetic acid	1.	(xii)	basic amino acids.	÷.		
				vinos:-	$6 \times 2 = 12$	¢		
	4.	Answer briefly any SIX parts from the	c Ionov	(ii)	What is the chemical nature of Enzymes?	1		
(i) what is glycogen: Give an ality of fats and (iv) Why neutral sulphite semichemical process				Why neutral sulphite semichemical process is	1			
(iii) what do you mean by function of the mostly used in paper industry.					Į			
	(v)	Explain NII, as nitrogenous fertilizer		(vi)	What are fertilizers? Why are they needed	-		
	(vii)	Why the oxyacids of chloring are stronge	r	(viii)	Why Hydrogen fluoride cannot be stored in glass	1		
(vii) Why the oxyacids of engline $x = 0$ containers? than oxyacids of bromine $x = 0$ containers?					al .			
than oxyacids of brom new containers? (ix) Complete therefollowing reactions. (a) $CaOCl_2 + H_2SO_4 \longrightarrow$ ? (b) $CaOCl_2 + 2HCl \longrightarrow$ ?								
		SEC.	יחודי	V	[]			
		SEC	he fol	lowing	$(8 \times 3 = 24)$			
Note: Attempt any three questions from the following.								
	- the streng of colourn in Digni (TOWIN)							
in the management of the maniferring of the second to the								
<ul> <li>6. (a) Describe the Bessemer's process for the manufacture of steel.</li> <li>(b) What do you know about water pollution? How is water polluted by industrial effluents?</li> </ul>								
The what is cracking? Explain its three types.								
	8 (a) Write down four methods of preparation of Alkane. Two from any methods							
	1 1 (aldehyde and keione)							
	(b) How will you convert? (1) Methanol into ethanol (1) According the end of the							
	9.	9 (a) Explain S. 2 mechanism in detail write 8(eight) points.						
	(b) Describe Mechanism for (i) Cannizzaro's reaction (ii) Aldehyde with $NH_2 - OH$							
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		127	and X	12				

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. 6	121	8 Warning:- Please write y	your Roll No. in the space	provided and sign.	Roll No
	121	(Inter Part – II) (Ses	sion 2015-17 & 2016-18	S) Sig.	of Student
*		emistry (Objective)	Group – I		aper (II)
WINS: 1	Tin	ne Allowed:- 20 minutes	PAPER CODI	E 4488 Ma	aximum Marks:- 17
*	that resu Ans whi	It is used most in that question W	Imber. Use marker or pen to /rite PAPER CODE, which i ingly, otherwise the student w	fill the circles. Cutting of s printed on this question ill be responsible for the Q.1	or filling two or more circles will on paper, on the both sides of the situation. Use of Ink Remover or
		(A) Diastase	(B) Zymase	(C) Urease	(D) Maltase
	2)	Formaline is a solution of	formaldehyde in wat	er	
		(A) 10 %	(B) 20 %	(C) 40 %	(D) 60 %
	3)	The solution of which acid is	s used for seasoning of fo	ood?	
		(A) Formic acid	(B) Acetic acid	(C) Benzoic acid	(D) Butanoic acid
		Which one of the following (A) Urease Peroxyacetylnitrate (PAN) i	(B) Maltase	(C) Zymase	(D) Lipase
		(A) Eyes	(B) Ears	(C) Nose	(D) Stomach
		The main pollutant of leather (A) Lead	(B) Chromium (vi)	(C) Copper	(D) Chromium (iii)
		For which crop, Ammonium (A) Cotton Zinc oxide is	(B) Wheat	(C) Sugarcane	(D) Paddy rice
	-,	(A) Acidic	(B) Basic	(C) Neutral	(D) Amphoteric
		Which one of the following (A) Be	(B) Ra	ne Earth metals? (C) Ba	(D) Rn
	10	) Which element forms an ior (A) Beryllium	(B) Aluminium	(C) Carbon	(D) Silicon
	11	) Laughing gas is chemically (A) NO	(B) N <sub>2</sub> O	(C) <i>NO</i> <sub>2</sub>	(D) N <sub>2</sub> O <sub>4</sub>
		) Hydrogen bond is the strong (A) HF	(B) HCl	(C)HBr	(D) HI
		) Which of the following is a (A) Sc	(B) Y	(C) Ra	(D) Co
	14	) Linear shape is associated w (A) sp <sup>3</sup>	(B) $sp^2$	(C) $sp$	(D) $dsp^2$
	15	) Formula of chloroform is (A) $CH_3Cl$	(B) CHCl <sub>3</sub>	(C) $CH_2Cl_2$	(D) <i>CCl</i> <sub>4</sub>
	16	Amongst the following, the (A) Toluene	compound that can be th (B) Benzene	e most readily sulpho (C) Nitrobenzene	(D) Chlorobenzene
	17	Which one of the following (A) $H_2O$	is not a nucleophile. (B) $BF_3$	(C) H <sub>2</sub> S	(D) <u>NH</u>
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		ال یا در ا در محمول و	Lind.		

R. Warning:- Please, do not write anything on this question paper except your Roll No. (Session 2015-17 & 2016-18) 1218 (Inter Part - 11) Paper (II) Group (II) Chemistry (Subjective) Maximum Marks: 68 Time Allowed: 2.40 hours Section ----- I  $8 \times 2 = 16$ Answer briefly any Eight parts from the followings:-Ź. Why size of an anion is always greater to that of its parent atom? (i) Hydration energy decreases in the group from top to bottom, why? (ii) How Gypsum can be converted to plaster of paris? (iii) Write reactions for (a) Boarax is heated with CoO. (b)  $Al_2O_3$  is heated with NaOH solution. (iv) What is sodium silicate; how it can be prepared? (v) Write chemical formulae for the following minerals. (a) Cryolite (b) Colemanite (vi) Write two points to show peculiar behaviour of Carbon from its group members. (vii)  $P_2O_5$  is a powerful dehydrating agent. Prove it by giving two examples. (viii) Give the reactions of contact process for the manufacture of Sulphuric acid. (ix) Write down any four points of dissimilarities between oxygen and sulphur. (x) Write role of chlorofluoro carbons (CFCs) in destroying ozone. (xi) Differentiate between primary and secondary pollutant with examples. (xii) Answer brietly any Eight parts from the followings:- $8 \times 2 = 16$ 3. (ii) What is Wurtz - fittig reaction? What is d – d transition? (i) Compare cast iron, wrought iron and steel with reference to percentage of carbon? (iii) Distinguish ethene from ethyne by a chemical reaction. (iv) Define polymerization. How high quality polyethylene is prepared? (v) What is excellent method for the preparation of alkyl iodides? Give an example. (vi) Define the following terms (a) Phenols (b) Oxonium ion (vii) Why phenol is acidic in nature but benzene is not acidic in nature? (viii) Prepare each of following compounds from acetaldehyde (a) Lactic Acid (b) Acetic Acid. (ix) Give general mechanism of base catalyzed addition reaction. (x) What are fatty acids? Give an example. (xii) What are  $\alpha$  – Aminoacids? Give their importance. (xi) Answer briefly any Six parts from the followings:- $6 \times 2 = 12$ 4. What is different, between plutos and fractose? What are thermonlastic polymers, the metample? (i) (ii) What are derived proteins? Give two examples. (iii) Name principal methods for chemical pulping used for production of paper? (iv) (vi) What are the requirements of a fertilizer? Define micro nutrients with examples? (v) Write down names and formulae of four oxyacids of Chlorine? (vii) (xi) Give four applications of noble gases? Give two uses of bromine. (viii) Section ----- II  $(8 \times 3 = 24)$ Note: Attempt any three questions. 5. (a) State Mendeleev's periodic Law. What are the improvements made in the Mendeleev's periodic table? (b) Mension the properties of Beryllium in which it does not resemble with its own family. 6. (a) Describe the Bessmer's process for the manufacture of steel. (b) Describe the hydrosphere and lithosphere of environment. What are homocyclic and heterocyclic compounds? Give one example of each. 7. (a) Draw the structural formulae for the following compounds. (i) m-chlorobenzoic acid. (b) (ii) P-nitroaniline (iii) 2-amino-5-bromo-3-nitro-benzene sulphonic acid. (iv) m-Nitrophenol (a) How phenol reacts with (i)  $H_2SO_4$  (ii) Hydrogen. How  $C_2H_5OH$  reacts with (i)  $CH_3 - Mg - I$  (ii)  $SOCl_2$ 8. Prepare Alkanes from (i) Carbonyl compounds (aldehydes & ketones) (ii) Grignards reagent (iii) Alkyl halide (b) 9. (a) Write reactions of ethyl magnesium bromide followed by acid hydrolysis with following compounds. (i) HCHO (ii)  $CH_3CHO$  (iii)  $(CH_3)_2CO$  (iv)  $CO_2$ (b) Describe with mechanism aldol condensation. Why does formaldehyde not give this reaction? 1274A -- 1218 -- 7000