	Warning:- Please wri	te your Roll No. in the spe	ace provided and sign.	Roll No
	Inter Part – II) (S	Session 2017-19 to 2019-	21) - Sig. o	of Student
	emistry (Objective)	Group -	II 540-II-21 Pap	per (II)
·	ne Allowed: - 20 minutes	PAPER COL	DE 4488 Max	ximum Marks:- 17
101	te:- You have four choices for	such objective type question a	A D C and D The choice	which you think is correct; fill
that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Write PAPER CODE, which is printed on this question paper, on the both sides of the				
	" In Loid mark in that question	Weits DADED CONFLink	to make and not the autostina	namer on the both sides of the
whi	te correcting fluid is not allowed	ordingly, otherwise the student		ituation. Use of Ink Remover or
1) Which reagent is used to reduce a carboxylic sup to an alcohol.				
	(A) H ₂ /Ni	(B) H ₂ /Rt	(C) NaBH ₄	(D) LiAlH4
2)		organic solutioned reacts	with NacCO to produce	g CO ₂ gas Which one of
2) An aqueous solution of an organic control ound reacts with Na ₂ CO ₃ to produce CO ₂ gas. Which one of the following could be organic compound				
	$(A) CH_2 = CH^2 CH^2$	B) CH-CH-COOH	(C) CH ₃ COCH ₃	(D) CH ₃ CHO
3)	Phosphorous helps gro	wth of	(c) criscocris	(b) enjene
	(A) Root	(B) Leave	(C) Stem	(D) Seed
4)	Mark the correct statement	t.	(0) 5.0	(2) 3301
	(A) C1 (ion) and C1	(B) Cl ⁻ ion is smaller	(C) Na ⁺ is larger than	(D) Na is smaller than
	(atom) are equal in		Na-atom	Na-atom
	size	than Cl atom		
5) The mineral CaSO ₄ .2H ₂ O has the general name.				
	(A) Dolomite	(B) Calcite	(C) Epsom	(D) Gypsum.
6) 7	The Chief ore of Aluminiu	m is	(c) Lpoo	(D) by psum.
	(A) Na ₃ AlF ₆	(B) Al ₂ O ₃ .H ₂ O	(C) Al ₂ O ₃	(D) Al ₂ O ₃ .2H ₂ O
7) \	Which of the following spe			ons.
	$(A) O_2$	(B) O_2^{+2}	(C) Q_2^{+1}	(D) Q_2^{-2}
8) V	Which is the strongest acid	L	***	. , 02
	(A) HClO ₃		(C) HClO ₄	(D) HClO
9) V	Which halogen occurs natu			(b) Helo
(A) Bromine (B) Iodine (C) Chlorine (D) Fluorine				
10) The colour of transition metal complexes is due to				
	(A) $d - d$ transition of		(C) Ionization	(D) Loss of s-electrons
	electrons	nature of transition	` '	
of elements				
11) Linear shape is associated with which set of hybrid orbitals				
	$(A) dsp^2$	$(B) \operatorname{sp}^3$	(C) sp	(D) sp^2
12) Vi	inyl acetylene combines w	vith HCl to form		
	(A) Phenyl acetylene	(B) Benzene	(C) Chloroprene	(D) Divinyl acetylene
13) Be	nzene cannot undergo			
	(A) Substitution	(B) Addition reactions	(C) Oxidation reaction	s (D) Elimination
	reactions	• •		reactions
14) For which mechanism, the first step involved is same.				
	(A) E1 & E2	(B) E2 & S _N 2	(C) S _N 1 and E2	(D) E1 & S_N1
	ich compound is called a		(-)	
	(A) H ₂ O	(B) CH ₃ OH	(C) C ₂ H ₅ OH	(D) CH ₃ -O-CH ₃
16) Which of the following will have the highest boiling point.				
		(B) Ethanal	(C) 2-Hexanone	(D) Propanal
	etone reacts with HCN to	` '	, ,	(D) Tropular
		(B) Electrophilic	(C) Nucleophilic	(D) Nucleophilic
	addition	substitution	addition	substitution
				Subditution
1281 1221 ALP 12000 (4)				

Warning:- Please, do not write anything on this question paper except your Roll No. 221 (Inter Part - II) (Session 2017-19 to 2019-21) Chemistry (Subjective) Paper (II) (Group II) Time Allowed: 2.40 hours Maximum Marks: 68 SGO-I-21 3. $8 \times 2 = 16$ Answer briefly any Eight parts from the followings:-Why Second ionization Energy is higher than First ionization Energy? (i) Define Hydration Energy. Give example also. (ii) Give chemical formula of Carnallite and Barite. (iii) What is Plaster of Paris? (v) Give two Points regarding Peculiar behaviour of Boron. (iv) Give two important uses of Boric Acid. (vii) "Boric Acid is a weak Acid". Justify. (vi) What do you know about Ring Test? (viii) (ix) How H₂SO₄ acts as oxidizing Agent? Give two reactions. (x) How would you prepare Diammonium Phosphate fertilizer? What do you know about Slurry? (xii) Write down two qualities of a good fertilizer. (xi) $8 \times 2 = 16$ 3. Answer briefly any Eight parts from the followings:-Why HF is weaker acid than HCl? (ii) What are disproportionation reactions? Give one example (i) What is meant by available chlorine? (iv) Define interstitial alloys. (iii) A damaged tin plated iron get rusted quickly comment. (v) Define resonance energy. Give one example. (vii) Describe Wurtz-Fitting reaction with one example. (vi) Give the use of Tollen's test. (ix) How NaHSO3 is added to acetone, give mechanism. (viii) Write any two methods of preparation of Acetic acid. (x) Give reactions of acetic acid with (a) PCl₅ (xi) Explain oxidative cleavage of alkene briefly. (xii) $6 \times 2 = 12$ Answer briefly any Six parts from the followings:-4. How octane number of alkanes can be improved. (i) Define tautomerism by giving one example. (ii) Why alkanes are called paraffins? (iii) Give the formation of formic acid by catalytic oxidation of alkane. (iv) Define electrophile. Give examples. (v) What is β - Elimination reaction? Give an example of β - E2 elimination reaction. (vi) What is meant by denaturing of Alcohol? (vii) Why Absolute Alcohol cannot be prepared by fermentation method? (viii) How acetaldehyde can be prepared from an alkyne? (ix) Section ----- II $(8\times3=24)$ Note: Attempt any three questions. 5. (a) Define oxidation state. Give its trend in the Periodic Table. (b) How Down's Cell is used to prepare pure Sodium metal? 6. (a) Describe the chemistry of the industrial preparation of sulphuric acid from sulphur by the contact process (b) Give any Four properties of Transition Elements. (a) Discuss in detail cis-Trans Isomerism. 7. (b) Describe with mechanism Aldol condensation reaction. Why Formaldehyde does not give this reaction? 8. (a) Give Kolbe's Electrolytic Method for the preparation of Alkanes with Mechanism. (b) Write a detailed note on S_N2 reactions of alkyl halides. (a) Explain the structure of Benzene by Resonance Method. 9. (b) Write the reaction of phenol with following. (i) NaOH (ii) CH₃COCl (iii) Zn (iv) Br₂ 1282 -- 1221 ALP -- 12000