Roll No		led in by the candidate)	
	(Academic Sessions 2017 – 2019 to 2019 – IISTRY 221-(INTER PART – II) R – II (Essay Type) GROUP – I	Time Allowed: 2.40 hour Maximum Marks: 68	rs
	SECTION – I		
2. Wr (i)	rite short answers to any EIGHT (8) questions:  Why the ionic radii of negative ions are larger than the size	of their parent atoms?	16
(ii)	Why the graphite is a good conductor?		
(iii)	Complete and balance the equations : (a) $LiNO_3$ Heat	$\rightarrow$ (b) $NaNO_3 \xrightarrow{Heat} \rightarrow$	
(iv)	Why the aqueous solution of $Na_2CO_3$ is alkaline in nature	?	
(v)	Give the chemical formulae of: (a) Kaolin (b) Felds	par	
(vi)	Give the four differences of boron from other elements of group IIIA.		
(vii)	Give four uses of borax.		
(viii)	Give four similarities of sulphur and oxygen.		
(ix)	Give four uses of sulphuric acid.		
(x)	Mention any four qualities of a good fertilizer.		
(xi)	Give the composition of a good Portland cement.		
(xii)	Define the term 'setting of cement'. Also describe reaction	ons taking place in first 24-hours?	
3. Wr	ite short answers to any EIGHT (8) questions :		16
(i)	Oxidizing power of halogen depends upon which factors.		
(ii)	What do you know about disproportionation reactions? Gi	ve example.	
(iii)	Give two uses of bleaching powder.		
(iv)	What are interstitial compounds?		
(v)	What is anode coating?		
(vi)	Give four examples of ortho-para directing groups.		
(vii)	Discuss catalytic oxidation of benzene.		
(viii)	What is iodoform test? Give its uses.		
(ix)	What do you know about silver mirror test?	,	
(x)	How would you prepare carboxylic acids from Grignard Re	eagents?	
(xi)	How would you prepare acid anhydride from acetic acid?		
(xii)	Why first four members of aliphatic acids are soluble in wa	ter?	
4. Wri	ite short answers to any SIX (6) questions :	,	12
(i)	What are homocyclic and heterocyclic compounds? Give of	one example of each.	
(ii)	Write the structural formulas of two possible isomers of $C_4$	$H_{10}$ .	
(iii)	How is methane converted to ethane?	,	
(iv)	Ozonolysis of alkene is used to locate the position of doubl	e bond, comment.	
(v)	Why is sigma bond inert?		
		(Turn Over)	