C.U.SHAH UNIVERSITY
Summer Examination-2018

Subject Name: Inorganic Chemistry-II
Subject Code: 4SC04ICH1   **Branch: B.Sc.(Chemistry, Physics)**
Semester: 4   **Date: 01/05/2018**   **Time: 10:30 To 01:30**   **Marks: 70**

Instructions:
    (1) Use of Programmable calculator & any other electronic instrument is prohibited.
    (2) Instructions written on main answer book are strictly to be obeyed.
    (3) Draw neat diagrams and figures (if necessary) at right places.
    (4) Assume suitable data if needed.

Q-1		**Attempt the following questions:**	**(14)**
	a)	What is coordination compound?	**(1)**
	b)	Define isomerism.	**(1)**
	c)	Give the full name of IUPAC.	**(1)**
	d)	Define geometrical isomerism.	**(1)**
	e)	What is chain isomerism?	**(1)**
	f)	Define potential energy.	**(1)**
	g)	What is polymerization?	**(1)**
	h)	Define co-polymer.	**(1)**
	i)	What are cis isomers?	**(1)**
	j)	What are trans isomers?	**(1)**
	k)	What is Organo-metalic compound?	**(1)**
	l)	Define atomic radii.	**(1)**
	m)	Define ionic radii.	**(1)**
	n)	What is alloy?	**(1)**

Attempt any four questions from Q-2 to Q-8

Q-2		**Attempt all questions**	**(14)**
	a)	Discus the types of isomerism.	**(7)**
	b)	Discuss the Postulates of Werner's coordination theory.	**(7)**
Q-3		**Attempt all questions**	**(14)**
	a)	Explain Werner's theory.	**(7)**
	b)	Write a note on characteristics of the wave functions.	**(7)**
Q-4		**Attempt all questions**	**(14)**
	a)	Discuss the Sidgwick's electronic concepts.	**(7)**
	b)	Write basic postulates of quantum mechanics.	**(7)**
Q-5		**Attempt all questions**	**(14)**

a)	Discuss the classification of Organo-metalic compounds.	**(7)**
b)	Discuss the properties and uses of Organo-Lithium.	**(7)**

Q-6		**Attempt all questions**	**(14)**
	a)	Discuss the properties and uses of Organo-Beryllium.	**(7)**
	b)	Write a note on Zeise salts.	**(7)**

Q-7		**Attempt all questions**	**(14)**
	a)	Discuss the properties and uses of Organo-Aluminium.	**(7)**
	b)	Discuss classifications of d-block elements.	**(7)**

Q-8		**Attempt all questions**	**(14)**
	a)	Write a note on magnetic properties of transition metal ions.	**(7)**
	b)	Write a note on formation of interstitial compounds.	**(7)**