C.U.SHAH UNIVERSITY
Summer Examination-2018

Subject Name : Pharmaceutical Analysis-I

Subject Code : 4PS02PHA1   **Branch: B.Pharm**

Semester : 2   **Date : 27/04/2018**   **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:**	**(20)**
	a)	What is super saturation?	
	b)	Define: Stoichiometric point and Normality	
	c)	Define indicator. Give two examples of mixed indicator	
	d)	Why starch indicator is prepared freshly?	
	e)	What is pH? Give brief idea on hydrolysis of salt.	
	f)	Why starch indicator is added at end of the titration in iodometry.	
	g)	Mention the types of argentometric titration.	
	h)	Define Ligand & Chelate	
	i)	What is meant by protophillic solvent and aprotic solvent?	
	j)	What is solubility product? Which factor affects on solubility of precipitation?	

Attempt the following questions:

Q-2		**Attempt any two of following :**	**(20)**
	A	Give detail note on Handerson Hasselbach equation.	**10**
	B	Explain Volhard's method and Fajan's method.	**10**
	C	Discuss the steps involved in gravimetric analysis.	**10**

Q-3		**Attempt any Six of following :**	**(30)**
	A	Define and explain: Accuracy and Precision	**5**
	B	Discuss primary and secondary standard.	**5**
	C	Enlist different types of redox titration and explain Diazonium nitrite titration.	**5**
	D	Write short note on : Co – precipitation and Post – precipitation	**5**
	E	Classify different type of titration and explain redox indicators.	**5**
	F	Define error and classify it.	**5**
	G	Describe Law of mass action and factors affecting the equilibrium.	**5**
	H	Write a short note on: Metal indicator	**5**
	I	Write a note on complexometric titration involving EDTA.	**5**