C.U.SHAH UNIVERSITY
Winter Examination-2022

Subject Name: Pharmaceutical Analysis I - Theory
Subject Code: BP102T   **Branch: B.Pharm**
Semester: 1   **Date: 14/03/2023**   **Time: 10:30 To 01:30**   **Marks : 75**

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	Define: Diazotization Titration.	**2**
B	Define: Demasking.	**2**
C	Which steps are involved in gravimetric analysis?	**2**
D	Define: Molarity and Normality	**2**
E	Define: Accuracy and Precision	**2**
F	Enlist indicators used for titration of weak bases.	**2**
G	What is F test?	**2**
H	Give at least two examples of strong acid and strong base.	**2**
I	Define Post precipitation and Co-Precipitation in gravimetric analysis.	**2**
J	What amount of S is required in the sample to precipitate 2gm of $BaSO_4$?	**2**
Q-2	**Attempt any two of following :**	**(20)**
A	Define Errors and explain its types.	**10**
B	Explain various theories of acid base indicators.	**10**
C	Explain Mohr's method to detect end point in precipitation titration.	**10**
Q-3	**Attempt any Seven of following :**	**(35)**
A	Define Chelating agents. Why EDTA is used as titrant in complexometric titration?	**5**
B	Explain types of solvent in non-aqueous titration.	**5**
C	Explain Karl-Fisher titration.	**5**
D	Give difference between classical and instrumental analysis.	**5**
E	Explain back titration.	**5**
F	Classification of ligands, chelate and chelating agents.	**5**
G	Explain Fajan's method to detect end point in precipitation titration.	**5**
H	Discuss various types of Complexometric Titration in detail.	**5**
I	1 gm of $BaCl_2$ is precipitated as AgCl. Calculate the amout of AgCl precipitated.	**5**