

Even Semester Mid-term Examination, 2022-23

ANALYTICAL AND ENVIRONMENTAL CHEMISTRY

CYE 611

Full Marks : 25

Time : 90 Minutes

The figures in the margin indicate full marks.

Answer the following questions.

$$[5 \times 5 = 25]$$

1. Write down the principle of colorimetric analysis. What are the essential criteria for the choice of a colorimetric method of analysis?
2. Briefly describe the TLC procedure and mention the significance of it in the area of organic synthesis research.
3. Mention the essential criteria are that must be fulfill in titrimetric method with proper justification. How will you measure Hardness in water by titrimetric method?
4. What do mean by Gravimetric of analysis and explain with suitable example. How will you interpret the experimental data with precision and accuracy?
5. Write down the principle and application of Flame photometric technique. Why Tin (Sn) is able to measure in AAS but not in Flame Photometer?