

INTRODUCTION TO PHARMACEUTICAL CHEMISTRY

DEFINITION - Pharmaceutical chemistry is the chemistry of drugs.

- Pharmaceutical chemistry includes different branches of chemistry such as organic chemistry, inorganic chemistry, analytical chemistry, medicinal chemistry.
- Pharmaceutical chemistry includes their preparation, chemical nature, composition, structure, methods of quality control, properties etc.

SCOPE:-

- Identity the drug in the formulated product.
- Concentration of specified impurities.
- Determination of active ingredient or additional impurities.
- Stability of the drug.
- Identify drug from its formulation.
- Concentration of drug in plasma or biological fluids.

OBJECTIVES:-

The main objectives of pharmaceutical chemistry are -

- To provide proper qualities and skills to the students required to fulfil their job responsibilities.
- As chemist in pharmaceutical, chemical and biomedical industries.
- Chemical classification, chemical name, chemical structure.
- Pharmacological uses, doses, stability and storage condition.
- To enhance the knowledge base required for synthesis, isolation, purification.
- To enhance skills for effective handling of chemicals, glassware and analytical instruction.
- To provide a tolerating atmosphere and encourage student and faculty for research activity.
- To train the faculty and the students about safe handling of chemicals and creating awareness about hazardous effects of chemicals.
- To provide the skill about qualitative and quantitative analysis of pharmaceuticals.

ERRORS

DEFINITION-Errors are defined as any difference between the standard value and true value.

OR

Errors denote the difference between the measured and true value.

SOURCES OF ERRORS

- Sometimes even standard weights have error.
- Dust particles in air may adhere to the balance causing error in reading.
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