

Examination: Master in Pharmacy First Year Second Semester EXAM 2024

Subject: PRICIPLES OF DRUG DISCOVERY

Ref. No.: **Ex/MPL203T/2024**

Time: 03 hrs Full Marks: 75

GROUP A (25 marks)

Q1) Explain in details the process and precautions from collection to isolation of plant components in drug discovery (Aspects like Drying, justifications for different Solvents, etc). (10)

Q2) Mention about Preparation of Protein Samples, Acrylamide Gel casting and Blotting process in Protein Separation. (15)

GROUP B (25 marks)

Q3) Write down main objectives of the new drug development. Schematically represent how a new molecule comes in the market as a drug. (15)

Q4) Define toxicology. Describe in details about different branches of toxicology. (10)

GROUP C (25 marks)

Answer any one

Q5) Discuss in detail the biogenesis of micro RNA. Explain the mechanism responsible for mRNA silencing activity of miRNA-RISC assembly. (15+10)

OR

Q6) Explain the mechanism of action of the following siRNA drugs (*any two*): (12.5+12.5)

- a) Givosiran
- b) Inclisiran.
- c) Patisiran