

Examination: Master in Pharmacy First Year Second Semester EXAM 2025

Subject: **PRINCIPLES OF DRUG DISCOVERY**

Ref. No.: **Ex/MPL203T/2025**

Time: 03 hrs Full Marks: 75

GROUP A (25 marks)

- Q1)** Explain how relative and absolute qualification of target gene is determined by RT PCR. (13)
- Q2)** Explain how standard curve is prepared for absolute quantification of gene in RT PCR. (07)
- Q3)** What do you understand by Multiplexing in PCR. (05)

GROUP B (25 marks)

- Q4)** Write down the objectives of new drug development. Write in short about preclinical trial. (10)
- Q5)** Write notes on (**any two**) (7.5×2=15)
- a) AMES test
 - b) Alzheimer's disease
 - c) Etiology and management of Parkinson disease.

GROUP C (25 marks)

Answer any one

- Q6)** Discuss in detail the biogenesis of micro RNA. Explain the mechanism responsible for mRNA silencing activity of miRNA-RISC assembly. (15+10)

OR

- Q7)** Explain the mode of action and clinical uses of the following siRNA drugs (**any two**): (12.5+12.5)
- a) Givosiran
 - b) Inclisiran.
 - c) Patisiran