## UNIVERSITY OF JAFFNA, SRI LANKA FACULTY OF ALLIED HEALTH SCIENCES

## FOURTH YEAR FIRST SEMESTER EXAMINATION IN BPharmHons- 2022 PHADD 4122 DRUG DISCOVERY AND DEVELOPMENT

Time: 02 Hours Date: 06/03/2024 Answer All Questions Define lead. (10 Marks) 1.1 1.2 List the lead identification methods. (10 Marks) Explain the methods of lead identification mentioned in 1.2. (40 Marks) 1.3 Briefly discuss the factors to consider in choosing a cell-based 1.4 (40 Marks) assay.

1.

3.

4.

Write down the rationale for conducting pharmacological profiling in drug discovery process.
 Discuss the advantages of *in-vitro* profiling. (40 Marks)
 Briefly explain *in-vivo* pharmacological profiling in animals. (25 Marks)
 Write down the alternative approaches that can be used for animal models.

3.1 List the types of toxicity studies. (25 Marks)
3.2 Write down the clinical signs of toxicity observed in animal studies.
3.3 Briefly discuss the *in-vitro* models for specific toxicity testing. (40 Marks)

4.1 Briefly explain the clinical study design. (35 Marks)
4.2 Write the objectives of each phase in clinical trials. (40 Marks)
4.3 List the functions of the clinical trial regulatory division in National Medicine Regulatory Authority (NMRA).