First Year M.Pharm Degree Examinations August 2017

(Pharmacology)

Paper I – Pharmacological Screening Methods & Drug Development

Time: 3 hrs   **Maximum Marks: 100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays: **(2x20 =40)**

1. Discuss the pharmacological experimental models employed in the screening of new drugs belonging to anti hypertensive agents and anti parkinsonian agents.

2. Discuss the applications of Student t-test, Chi-square test, one way ANOVA, linear regression and correlation

Short Essays: **(6x10=60)**

3. Explain briefly procedure for determination of LD_{50}.

4. Describe the principles and applications of receptor-radio ligand binding assays.

5. Explain propagation and preservation of cell lines in cell culture laboratory.

6. Explain the concept and applications of high throughput screening.

7. Explain the principle of bioassays and discuss how heparin sodium is bio-assayed

8. Discuss the CPCSEA guidelines for development and maintenance of laboratory animal facilities.

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