

FACULTY OF PHARMACY**M. Pharmacy (Pharmacology) I-Semester (PCI) (Main & Backlog) Examination,****January 2020****Subject: Pharmacological and Toxicological Screening Methods - I****Time: 3 Hrs****Max. Marks: 75****Note:** Answer Any Five Questions. All Questions Carry Equal Marks.

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| 1 | (a) Describe in detail abt regulations for laboratory animal care as per CPCSEA Guidelines. | 10 |
| | (b) Enlist the applications of transgenic animals in preclinical research. | 5 |
| 2 | Define memory. List t the animal models for evaluating the test drug for improving memory and describe any three models. | 15 |
| 3 | Describe the preclinical screening procedures for the following: | |
| | (a) Antifertility agents | 8 |
| | (b) Analgesics | 7 |
| 4 | Define diabetes. List t the methods available to induce diabetes and describe three models in the screening of anti-diabetic agents. | 15 |
| 5 | Explain the <i>in vitro</i> and <i>in vivo</i> screening methods for immunomodulators. | 15 |
| 6 | Write short notes on: | |
| | (a) Alternate animal experiments | 7 |
| | (b) Immunoassay for digoxin | 8 |
| 7 | Describe the screening methods for the evaluation of the following activities of a compnd | |
| | (a) Hepatoprotective drugs | 8 |
| | (b) Anti ulcer agents | 7 |
| 8 | Describe the screening methods used to evaluate the therapeutic activity of the following: | |
| | (a) Anti-asthmatics | 8 |
| | (b) Diuretics | 7 |
