

First Semester M. Pharm Degree Examination - JUNI

[Time: 3 Hours]

# Pharmacological and Toxicological Screening Methods-I **Q.P. CODE: 5135**

Your answers should be specific to the questions asked. Draw neat, labeled diagrams wherever necessary.

### LONG ESSAY (Answer any Three)

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- 1. Enumerate various preclinical models to evaluate anti-anxiety activity of drugs. Explain any two screening models.
- 2. Enumerate screening methods for antipsychotic drugs and explain pole climbing avoidance test in rats
- 3. Write a note on chemical mediators of inflammation. Explain one in vitro and one *in-vivo* method to screen an anti-inflammatory agent.
- 4. What are the methods to screen antidiabetic agents? Discuss the euglycaemic clamp technique and method to evaluate alpha glucosidase inhibitory activity.

### SHORT ESSAY (Answer any Nine)

- 5. What are the pharmacological applications of transgenic animals?
- 6. Write a note on preclinical screening methods for drugs used in Alzheimers disease.
- 7. Explain one model each from invivo and invitro models to evaluate antidiarrhoeal activity of a drug.
- 8. Explain one model each from *in vivo* and *in vitro* models to evaluate anti-asthmatic activity of a drug.
- 9. Explain the stress induced ulcer model and pylorus ligation method to evaluate an anti ulcer agent.
- 10. Enumerate various preclinical models to evaluate antihypertensive activity of a drug. Explain any one model.
- Ennumerate the models for screening of antianginal activity and explain the lagendroff 11. technique for isolated mammalian heart.
- 12. What is the role of lipoprotein in atherosclerosis? Explain the high-fat diet model for screening of antiatherosclerotic agents.
- 13. Write a note on alternatives to animal experiments in pharmacology.
- Explain the general principles of immunoassays. 14.

[Max. Marks: 75]

ealth Sciences

# 9 X 5 = 45 Marks

3 X 10 = 30 Marks

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