[Max. Marks: 100]

Advanced Pharmacology and Toxicology

First Year M. Pharm Degree Examination - Oct/Nov 2014

(Revised Scheme 4)

Jniversit

Q.P. CODE: 9349

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

LONG ESSAY (Answer any TWO)

[Time: 3 Hours]

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- 1. Enumerate various cell surface receptor families and explain the transduction pathway involved in ion channel receptors and tyrosine kinase linked receptors.
- 2. Explain pathophysiology and pharmacotherapy of Parkinson's and Alzheimer's disease. (10+10)
- 3. What is mutagenicity? Enlist and explain various mutagenicity studies. (2+18)

SHORT ESSAY (Answer any FIVE)

- 4. Explain the pathogenesis of cardiac arrhythmias and write the pharmacology of any one drug used for treatment of arrhythmias. (4+6)
- 5. Explain the role of neurotransmitters as signaling molecules with examples.
- 6. Explain biosynthesis, physiological roles of 5-hydroxy tryptamine. (4+6)
- 7. Explain the principles and methods involved in male reproductive toxicity studies. (5+5)
- 8. Write a note on pharmacotherapy and critical analysis of rational use of drugs for COPD. (7+3)
- 9. Explain cAMP as intracellular signal transduction secondary messenger.

SHORT NOTES

- 10. Explain the pharmacotherapy of congestive heart failure.
- 11. Explain the generation and actions of cytokines.

2 X 20 = 40 Marks

(4.5)

5 X 10 = 50 Marks