[Max. Marks: 100]

Advanced Pharmacology and Toxicology

(Revised Scheme 4)

Jniversit www.FirstRanker.com First Year M. Pharm Degree Examination - NOVEMBER 2015

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. Write the pathophysiology, pharmacotherapy and critical analysis of rational use of drugs in asthma.
- 2. Write the molecular mechanisms involved in cell regulation.
- 3. Write the pathophysiology, pharmacotherapy and critical analysis of rational use of drugs in CHF.

SHORT ESSAY (Answer any FIVE)

- 4. Write the intracellular signal transduction through mitogen-activated protein kinase (MAPK) and cytokine-activated Janus kinase (JAK) / signal transducer and activator of transcription (STAT) pathway.
- 5. Write the pathophysiology and pharmacotherapy of diabetes mellitus.
- 6. Write a note on female reproductive toxicity.
- 7. Write a note on *in vitro* tests for gene mutations in bacteria.
- 8. Pathophysiology and pharmacotherapy of myasthenia gravis
- Ler con ket.con ***** 9. Pathophysiology and pharmacotherapy of peptic ulcer

SHORT NOTES

- 10. G-protein coupled receptors
- 11. Biosynthesis of eicosanoids

5 X 10 = 50 Marks

2 X 5 = 10 Marks

$2 \times 20 = 40$ Marks