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Advanced Pharmacology and Toxicology

(Revised Scheme 4)

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]

- Write the pathophysiology, pharmacotherapy and critical analysis of rational use of drugs in 1. 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
- 9. Pathophysiology and pharmacotherapy of peptic ulcer

SHORT NOTES

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



2 X 5 = 10 Marks

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5 X 10 = 50 Marks

2 X 20 = 40 Marks

