

QP Code:

Reg.No.:.....

MD Degree Examinations in Pharmacology
(Model Question Paper)

Paper I – GENERAL PHARMACOLOGICAL PRINCIPLES AND APPLIED SCIENCES

Time: 3 hrs

Max marks :100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Describe the biotransformation of drugs. Discuss the factors affecting it. Discuss the clinical relevance.

Short essays:

(8X10=80)

2. Fixed dose combination of drugs
3. Structure activity relationship of corticosteroids
4. Second messengers
5. Drug therapy during pregnancy
6. Plasma protein binding
7. G protein coupled receptors
8. Plasma half life
9. Orders of kinetics and their clinical importance

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Paper II – SYSTEMIC PHARMACOLOGY, CHEMOTHERAPY AND THERAPEUTICS

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Discuss the current status of pharmacotherapy of tuberculosis. Discuss short course chemotherapy.

Short essays:

(8X10=80)

2. Treatment of migraine
3. Hormone replacement therapy
4. Fluroquinolones
5. Treatment of osteoporosis
6. Drug therapy of glaucoma - Newer concepts
7. Insulin analogues
8. Monoclonal antibodies
9. Amiodarone

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Paper III – EXPERIMENTAL PHARMACOLOGY, BIOASSAY AND STATISTICS.

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Describe methods used to evaluate anti-inflammatory drugs.

Short essays:

(8X10=80)

2. Students 't' test
3. Design of acute toxicity tests
4. Log dose response curve
5. Rat as an experimental animal in Pharmacology
6. Detection and estimation of acetylcholine
7. Volume of distribution of drugs
8. HPLC
9. Physiological salt solutions

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Paper IV – CLINICAL PHARMACOLOGY AND RECENT ADVANCES

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Design a phase II clinical trial for the study of an antihypertensive activity of a new drug molecule

Short essays:

(8X10=80)

2. Pharmacovigilance
3. Cytokines as potential therapeutic targets
4. Drugs for treating obesity
5. Atypical antidepressants
6. Treatment of Alzheimer's disease
7. Treatment of venous thrombosis
8. Therapeutic drug monitoring
9. Melatonin
