

M.D. Examination
Pharmacology : Branch IV
Paper-I
(Clinical Pharmacology)

[Max. Marks : 100]

Date : 02-04-2019, Tuesday]

Time : 3 Hours]

- Instructions : (1) Figure to the right indicates marks.
(2) Write legibly and to the point.
(3) Draw diagrams wherever necessary.

1. Define drug pharmacokinetics. Discuss applications of principles of pharmacokinetics to pharmacotherapy of diseases. (20)
 2. Describe in detail the effect of
 - a. Age on drug response
 - b. Genetics on drug response(20)
 3. Discuss the pharmacotherapy of
 - a. Myocardial infarction
 - b. Tuberculosis(20)
 4. Discuss the clinical relevance of
 - a. Half life of a drug
 - b. Enzyme induction(20)
 5. Write short notes on
 - a. Orphan drugs
 - b. Ethics in clinical research(20)
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M.D. Examination

Pharmacology : Branch IV

Paper II

(General Pharmacology & Pharmacometrics)

[Max. Marks : 100]

Date : 04-04-2019, Thursday]

Time : 3 Hours]

- Instructions :
- (1) Figure to the right indicates marks.
 - (2) Write legibly and to the point.
 - (3) Draw diagrams wherever necessary.

1. Describe experimental models for evaluation of a drug for (20)
 - a. Analgesic activity
 - b. Anti diabetic activity
 2. Discuss dose response relationship. Write about the applicability of the same in drug discovery and development. (20)
 3. Write in detail (20)
 - a. The significance of bioavailability - bioequivalence studies.
 - b. Drug Nomenclature
 4. Describe in detail (20)
 - a. Pharmacoeconomics
 - b. Essential Medicine concept
 5. Write short notes on (20)
 - a. Chromatographic techniques
 - b. Pharmacovigilance
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0419E131

Candidate's Seat No : _____

M.D. Examination

Pharmacology : Branch IV

Paper III

(Systemic Pharmacology)

[Max. Marks : 100]

Date : 08-04-2019, Monday]

Time : 3 Hours]

- Instructions :
- (1) Figure to the right indicates marks.
 - (2) Write legibly and to the point.
 - (3) Draw diagrams wherever necessary.

1. Discuss targetted therapeutic strategies for cancer treatment. (20)
 2. Discuss the pharmacotherapy of (20)
 - a. Congestive heart failure
 - b. Plasmodium vivax malaria
 3. Write short notes on (20)
 - a. Anticoagulant drugs
 - b. Vasopressin antagonists
 4. Write short notes on (20)
 - a. Sodium channels as therapeutic targets
 - b. Estrogen receptor modulators
 5. Discuss the therapeutic status of (20)
 - a. Benzathine penicillin in Rheumatic heart disease
 - b. Morphine in analgesia
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0419E170

Candidate's Seat No : _____

M.D. Examination

Pharmacology : Branch IV

Paper IV

(Modern Trends & Recent Advances)

Date : 10-04-2019, Wednesday]

Time : 3 Hours]

[Max. Marks : 100

- Instructions :
- (1) Figure to the right indicates marks.
 - (2) Write legibly and to the point.
 - (3) Draw diagrams wherever necessary.

1. Discuss recent advances in drug treatment of epilepsy. (20)

(20)

2. Write short notes on
- a. Insulin secretagogues
 - b. Treatment of viral hepatitis

(20)

3. Discuss briefly
- a. Newer drug delivery systems
 - b. Drug abuse in sports

4. Discuss recent advances in the pharmacological treatment of prostate carcinoma. (20)

(20)

5. Write short notes on
- a. Materiovigilance
 - b. Competency based medical education