

POST GRADUATE EXAMINATION, MAY - 2018

MD PHARMACOLOGY
(PAPER ONE)

GENERAL & BASIC PHARMACOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1. Describe phases of clinical trial with special reference to post marketing surveillance. (20)
- Q. 2. Define adverse drug reaction (ADR) and its type giving suitable examples. Describe the methods and challenges in monitoring of ADRs. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Clinical significance of plasma half life
 - b. Generic drug prescribing
 - c. Pharmacogenetics
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Drug schedules
 - b. Placebo and its significance
 - c. Evidence based medicine
 - d. Off label use of drugs
 - e. Ethics in clinical research

X

POST GRADUATE EXAMINATION, MAY - 2018

MD PHARMACOLOGY
(PAPER TWO)

SYSTEMIC PHARMACOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1. Describe 5HT receptor modulation in therapeutics. (20)
- Q. 2. Outline the recent ADA guidelines for management of diabetes. What is the current status of DPP-IV inhibitors in the management of diabetes mellitus? (10+10= 20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- General considerations in cancer chemotherapy
 - Treatment of XDR and XXDR tuberculosis
 - Motor performance fluctuations in Parkinsonism and its management
- Q. 4. Write short notes on: (5 x 6 = 30)
- Drugs for treatment of neurocysticercosis
 - Uses of botulinum toxin
 - Topoisomerase inhibitors
 - Current status of long acting bisphosphonates
 - Pre-emptive use of antimicrobials

X

POST GRADUATE EXAMINATION, MAY - 2018

MD PHARMACOLOGY
(PAPER THREE)EXPERIMENTAL PHARMACOLOGY AND BIOASSAYS, SCREENING METHODS,
BIOSTATISTICS & QUESTION RELATED TO THESIS WORK

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1. What are various screening methods for evaluation of diuretic activity? How is tubular site of action of diuretics determined? (20)
- Q. 2. Outline various phases of drug development from a lead compound to a new drug. Describe role of lead optimization in drug development. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- Anti fertility drug screening
 - Alternatives to animals in experimental pharmacology
 - Value and limitations of bioassays
- Q. 4. Write short notes on: (5 x 6 = 30)
- Odds ratio and confidential intervals
 - Microdose assay
 - Tests of mutagenicity
 - Institutional animal ethics committees
 - Citations, impact factor and H - index

POST GRADUATE EXAMINATION, MAY - 2018

**MD PHARMACOLOGY
(PAPER FOUR)**

THERAPEUTICS AND TOXICOLOGY, RECENT ADVANCES IN PHARMACOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss the following : **(10+10 = 20)**
a. Iron preparations and their optimal use in therapeutics.
b. Drugs used in treatment of obesity.
- Q. 2.** Explain the current status of Gliptins as add-on therapy in diabetes. Write in detail the drugs used for improving post-prandial blood sugar. **(20)**
- Q. 3. Describe briefly:** **(3 x 10 = 30)**
a. Antibiotic prophylaxis
b. Advances in management of CHF
c. Newer approaches for treatment of pulmonary artery hypertension
- Q. 4. Write short notes on:** **(5 x 6 = 30)**
a. Schedule H1 drugs
b. Recently banned fixed dose combinations (FDCs)
c. Role of anti-IGE monoclonal antibodies in chronic asthma
d. Drug treatment for sleep onset insomnia
e. Recent amendments in schedule Y

X