

## MODEL PAPER

M.D. (PHARMACOLOGY) EXAMINATION  
PAPER-I  
GENERAL PHARMACOLOGICAL PRINCIPLES AND APPLIED SCIENCES  
(MDPH-01)

Maximum Marks: 100

Duration: Three Hours

Note: Answer all questions.

1. What is translational medicine and transitional medicine? Discuss the various aspects of the two forms of medicine giving suitable examples. 40
2. Briefly discuss the following: 15x2=30
  - (a) Therapeutic drug monitoring
  - (b) Target drug delivery system
3. Write short notes on: 15x2=30
  - (a) Role of placebo in therapy in clinical trials
  - (b) p Values and pA<sub>2</sub> value

## MODEL PAPER

M.D. (PHARMACOLOGY) EXAMINATION  
PAPER-II  
SYSTEMATIC PHARMACOLOGY, CHEMOTHERAPY AND THERAPEUTICS  
(MDPH-02)

Maximum Marks: 100

Duration: Three Hours

Note: Answer all questions in serial order.

1.     a.     Describe ion channels. Discuss pharmacological role of Na<sup>+</sup> channel modulators in therapeutics.     20  
       b.     Discuss phosphodiesterase inhibitors as therapeutic tools.     20
2.     Discuss in brief:     15x2=30
  - (a)     Drug therapy of XDR tuberculosis
  - (b)     Direct thrombin inhibitors
3.     Write in brief:     10x3=30
  - (a)     Pre-and Pro-biotics
  - (b)     Newer antipsychotic drugs
  - (c)     Vasopressin receptors – therapeutic significance

## MODEL PAPER

M.D. (PHARMACOLOGY) EXAMINATION  
PAPER-III  
EXPERIMENTAL PHARMACOLOGY, SCREENING OF DRUGS AND  
BIO-STATISTICS ETC  
(MDPH-03)

Maximum Marks: 100

Duration: Three Hours

Note: Answer all questions in serial order.

1.     a.     Describe the experimental evaluation of potential new molecule for antimalarial activity. 20  
  
       b.     A new herbal drug is being developed as a therapeutic agent for learning and memory enhancement. Discuss the experimental evaluation of this agent. 20
2.     Write in brief: 10x3=30  
       (a)     Genotoxicity studies  
       (b)     Impact factor of a journal  
       (c)     P-value and its significance  
               <https://www.freshersnow.com/previous-year-question-papers/>
3.     Write on: 10x3=30  
       (a)     Sample size determination for clinical trials  
       (b)     Therapeutic potential of mono clonal antibodies  
       (c)     Recent drug withdrawals in India

## MODEL PAPER

M.D. (PHARMACOLOGY) EXAMINATION  
PAPER-IV  
CLINICAL PHARMACOLOGY AND RECENT ADVANCES  
(MDPH-04)

Maximum Marks: 100

Duration: Three Hours

Note: Answer all questions in serial order.

1. Discuss the advances & current concepts in the treatment of Type-II diabetes. 40
2. Discuss the following: 10x3=30
  - (a) Antibiotic resistance: mechanism & its implications
  - (b) Current status of LTs antagonists
  - (c) Monoclonal antibodies in Chemotherapy of malignancy
3. Write in brief: 15x2=30
  - (a) Drugs used in pregnancy: precaution & therapy
  - (b) Recent therapy for cardio protection