


**RAN-2406120801010501**
**M. D. (Pharmacology) Examination September - 2025**
**Paper - I (Set - 1)**
**Time: 3 Hours ]**
**[ Total Marks: 100**
**સૂચના : / Instructions**
**(1)**
**નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.**
**Fill up strictly the details of signs on your answer book**
**Name of the Examination:**
**M. D. (Pharmacology)**
**Name of the Subject :**
**Paper - I (Set - 1)**
**Subject Code No.: 2406120801010501**
**Seat No.:**
     
**Student's Signature**

- (2) All questions are compulsory  
 (3) Figures to the right indicate maximum marks  
 (4) Illustrate your answer with examples and diagrams if needed.

**Q. 1. Discuss different types of ion channels & explain their role as drug targets. (40)**
**Q. 2. Describe briefly: (15×2=30)**

- a. Steps in transmission at the cholinergic synapse  
 b. Different pathways involved in drug-metabolism along with the factors that influence them

**Q. 3. Write short note: (10×3=30)**

- a. Correlation between chemical structure and pharmacological activity of  $\beta$ -blockers  
 b. Alexander Fleming  
 c. Role of "Informed Consent" in Good Clinical Practice.


**RAN-2406120801010502**
**M. D. (Pharmacology) Examination September - 2025**
**Paper - II**
**Time: 3 Hours ]**
**[ Total Marks: 100**
**સૂચના : / Instructions**
**(1)**
**નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.**
**Fill up strictly the details of signs on your answer book**
**Name of the Examination:**
**M. D. (Pharmacology)**
**Name of the Subject :**
**Paper - II**
**Subject Code No.: 2406120801010502**
**Seat No.:**
     
**Student's Signature**

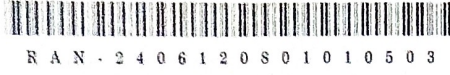
- (2) All questions are compulsory  
 (3) Figures to the right indicate maximum marks  
 (4) Illustrate your answer with examples and diagrams if needed.

**Q. 1. Evolution of Anti-retroviral therapeutics.**
**(40)**
**Q. 2. Describe briefly:**
**[15×2 = 30]**

- a. Therapeutic potential of cannabinoids  
 b. Nitric Oxide donors & inhibitors

**Q. 3. Write short note:**
**[10×3 = 30]**

- a. Antiandrogen  
 b. P. vivax - Trending Treatment Patterns  
 c. Drug therapy in pregnancy hypertension


**RAN-2406120801010503**
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**Paper - III**
**Time: 3 Hours ]**
**[ Total Marks: 100**
**સૂચના : / Instructions**
**(1)**
**નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.**
**Fill up strictly the details of signs on your answer book**
**Name of the Examination:**
**M. D. (Pharmacology)**
**Name of the Subject :**
**Paper - III**
**Subject Code No.: 2406120801010503**
**Seat No.:**

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**Student's Signature**

- (2) All questions are compulsory
- (3) Figures to the right indicate maximum marks
- (4) Illustrate your answer with examples and diagrams if needed.

**Q. 1.** Explain various animal models, techniques and instrument used for evaluation of sedative and hypnotic drugs. **(40)**

**Q. 2.** Describe briefly: **(15×2=30)**

- a. Discuss the laws pertaining to Pharmacology
- b. Discuss in detail how to tackle Tuberculosis as a national burden

**Q. 3.** Write short note: **(10×3=30)**

- a. Student's t test
- b. Toxins as therapeutic agents
- c. Medication errors.




**RAN-2406120801010504**
**M.D. (Pharmacology) Examination September - 2025**
**(Paper - IV)**
**Time: 3 Hours ]**
**[ Total Marks: 100**
**સૂચના : / Instructions**
**(1)**
**નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.**
**Fill up strictly the details of signs on your answer book**
**Name of the Examination:**
**M.D. (Pharmacology)**
**Name of the Subject :**
**(Paper - IV)**
**Subject Code No.: 2406120801010504**
**Seat No.:**
     
**Student's Signature**

- 2) All questions are compulsory
- 3) Figures to the right indicate maximum marks
- 4) Illustrate your answer with examples and diagrams if needed.

**Q. 1.** Therapeutics in management of Type 2 Diabetes Mellitus with emphasis on recent evolving trends **[40]**

**Q. 2. Describe briefly :** **[15 × 2 = 30]**

- a) Pharmacological basis including current recommendations for therapeutics in heart failure
- b) Therapeutic in relation to precision medicine.

**Q. 3. Write short note:** **[10 × 3 = 30]**

- a) Challenges in paediatric pharmacology
- b) Reverse pharmacology
- c) Role of Potassium Channel modulators in the management of peptic ulcer