



RAN-2406120801010501

Doctor of Medicine Examination August - 2026

Pharmacology (Paper - I)

SMINTER
CENTRAL LIBRARY

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) All questions are compulsory.
- (3) Figures to the right indicate maximum marks.
- (4) Illustrate your answer with examples and diagrams if needed

Seat No.:

Student's Signature

- Q.1.** Discuss the principles of pharmacokinetics. Explain clearance, volume of distribution and half-life, and their application in the design of a dosage regimen. **40**
- Q.2. Describe briefly :** **15 × 2=30**
- a) Enzyme-linked receptors and their pharmacological importance.
 - b) Clinical Trials designs
- Q.3. Write short note :** **10 × 3=30**
- a) Phases of drug biotransformation
 - b) Receptor desensitisation and down-regulation
 - c) Contribution of Yellapragada Subbarow to pharmacology


RAN-2406120801010502
Doctor of Medicine Examination August - 2026
Pharmacology (Paper - II)
Time: 3 Hours]
[Total Marks: 100

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book (2) All questions are compulsory. (3) Figures to the right indicate maximum marks. (4) Illustrate your answer with examples and diagrams if needed.	Seat No.: <table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> Student's Signature						

- Q.1.** Classify oral hypoglycaemic agents. Discuss the rational pharmacotherapy of type 2 diabetes mellitus, including the role of insulin. **40**
- Q.2.** Describe briefly **15 × 2=30**
- Misuse and abuse of antimicrobials
 - Drugs used in acute decompensated heart failure
- Q.3.** Write short note : **10 × 3=30**
- Antianxiety drugs
 - Pharmacotherapy of rheumatoid arthritis
 - Drugs used in the treatment of obesity


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Pharmacology (Paper - III)
Time: 3 Hours]
[Total Marks: 100
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) All questions are compulsory.
- (3) Figures to the right indicate maximum marks.
- (4) Illustrate your answer with examples and diagrams if needed

Seat No.:

Student's Signature

- Q.1.** Describe the process of drug discovery and development from target identification to marketing authorisation. **40**
- Q.2.** Describe briefly : **15 × 2=30**
- a) Screening methods for anti-inflammatory activity
 - b) Causality assessment of an adverse drug reaction, with the scales in common use
- Q.3.** Write short note : **10 × 3=30**
- a) Functions of an institutional ethics committee
 - b) Measures of central tendency and dispersion
 - c) Pharmacology postgraduate as a teacher

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Doctor of Medicine - Examination August - 2026

Pharmacology (Paper - IV)

[Total Marks: 100

Time: 3 Hours]

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) All questions are compulsory.
- (3) Figures to the right indicate maximum marks.
- (4) Illustrate your answer with examples and diagrams if needed.

Seat No.:

Student's Signature

- Q. 1. Discuss biologics and biosimilars, with reference to their development, regulatory pathway and therapeutic applications. [40]
- Q. 2. Describe briefly: [15×2=30]
- (a) Pathway targeted therapies in cancer
 - (b) Newer anticoagulant and antiplatelet agents
- Q. 3. Write short note: [10×3 =30]
- (a) Metformin repositioning
 - (b) Newer drug delivery systems
 - (c) Chronopharmacology and its applications in therapy