

INDIRA UNIVERSITY, PUNE

SCHOOL OF PHARMACY- MPHARM (Pharmacology)

Term End Examination (2025 Pattern) April- May – 2026- Semester – II

Course Name: Advanced Pharmacology II
Course Code: MPL201T

Max. Marks: 75
Time: 3:00 Hrs.

Instructions

- All Questions are Compulsory. Write two sections on separate answer sheets.
 - Neat diagram must be drawn wherever necessary.
 - Figures to the right indicate full marks.
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Section : I

Q.1 Solve any ONE from the following **15 Marks**

- a. Classify antibiotics. Briefly explain the mechanism of action, antimicrobial spectrum, antimicrobial resistance and therapeutic uses of aminoglycosides
- b. Discuss in detail Pharmacological actions, mechanism of action, therapeutic uses and adverse effects of Insulin. Write a note on insulin preparations

Q.2 Solve any FOUR from the following **20 Marks**

- a. Write pharmacological actions of thyroid hormones.
- b. Write the mechanism of action, therapeutic uses and adverse effects of Isoniazid.
- c. Explain the various mechanisms of antibiotic resistance.
- d. Explain the pharmacology and therapeutic uses of growth hormone.
- e. Explain mode of action, toxicities and therapeutic uses of fluoroquinolones.
- f. Write a note on imidazoles and triazoles as antifungal agent.

Section : II

Q.3 Solve any ONE from the following **15 Marks**

- a. Classify anticancer agents with examples. Discuss in detail Pharmacology of hormones as anticancer agents.
- b. Define and classify anti-ulcer drugs. Write the pharmacology of H₂ receptor antagonists.

Q.4 Solve any TWO from the following

15 Marks

- a. Define free radicals and antioxidants. Write the role of free radicals in the etiopathology of neurodegenerative disorders.
- b. Explain correlation in circadian rhythm and diseases with appropriate examples.
- c. Discuss pharmacology of drugs for the treatment of irritable bowel syndrome.
- d. Discuss pharmacology of drugs for the treatment of protozoal infections.

Q.5 Solve any TWO from the following

10 Marks

- a. Explain pharmacology of PPIs.
- b. Write a short note on management of constipation.
- c. Write short note on Vitamin C as an antioxidant.
- d. Classify antiemetic drugs. Write pharmacology of prokinetic agents.
