

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

# Shree H. N. Shukla Institute of Pharmaceutical Education and Research

**B. PHARM. - SEMESTER- IV • EXAMINATION – SUMMER -2021**

**Subject Code: BP404TP**

**Date: 05-04-21**

**Subject Name: Pharmacology I**

**Time: 10:30 AM TO 1:30PM**

**Total Marks: 100**

**Instructions:**

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

- Q.1** (a) Write various routes of drug administration. Explain oral route in detail. **06**
- (b) Write various routes of drug administration. Explain parenteral route in detail. **05**
- (c) Explain terms A) Agonists, B) Antagonists ( competitive and noncompetitive) **05**
- Q.2** (a) Explain Drug absorption in detail **06**
- (b) Write detail note: Drug Distribution **05**
- (c) Define drug metabolism. Explain Phase 1 and Phase 2 reactions in detail. **05**
- Q.3** (a) Write detail note on enzyme induction and inhibition. **06**
- (b) Explain creatinine clearance. Write drug excretion in detail. **05**
- (c) Classify receptors and write detail note on GPCR. **05**
- Q.4** (a) Classify receptors and write detail note on Enzyme linked receptors. **06**
- (b) Explain dose-response relationship in detail. **05**
- (c) Explain various types of ADR in detail. **05**
- Q.5** (a) Explain Organophosphorous poisoning & its treatment. **06**
- (b) Explain pharmacological actions and clinical uses of atropine. **05**
- (c) Write a note on ganglion blockers. **05**
- Q. 6** (a) Classify and explain cholinergic receptors emphasizing on subtypes. **05**
- (b) Classify anticholinergic drugs. **05**
- Q.7** (a) Explain drug discovery and various phases of clinical trial. **05**
- (b) Define pharmacovigilance in detail. **05**

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