

**Annual Examination 2022**  
**B. Pharm 4<sup>th</sup> Year**  
**Pharmacology-III and Clinical Pharmacy**

**Time: 3Hrs**

**Max. Marks-80**

**Note: Attempt any five questions:**

1. Classify antihypertensive agents write in detail Pharmacology of any one calcium channel blocker?
2. Define, classify and differentiate anti-retro-viral and non-anti-retroviral agents explain in detail general principals of anti-retroviral therapy?
3. Write a note on:  
(A) Antifungal drugs and Antiviral drugs  
(B) Antiprotozoal drugs
4. Classify bioassays explain in detail rational, approaches, design, indication and limitation of bioassays write in detail bioassay of digitals
5. Explain the feature of good clinical practices in clinical trials
6. What are the ethical and regulatory issues as per GCP in clinical trials Explain in detail Phase-IV clinical study
7. Write a detail note on approaches in enhanceement of elimination of the poisons discuss treatment of iron poisoning?
8. Describe the Pharmacology of sera and vaccines explain in detailed the Gene-Therahy?
9. Write basic concepts of Pharmacotherapy discuss use of drugs in intents and elderly patients?
10. Define Chemotherapy discuss general principles of Chemotherapy classify broad spectrum antibiotics?