

QP CODE: 313006 (new scheme)**Reg. No:****Third Year B.Pharm Degree Supplementary Examinations****January 2018****PHARMACOLOGY – I****(2012 Scheme)****Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

Essay**(3x10=30)**

1. Classify cholinergic drugs with examples. Discuss the pharmacological actions of acetyl choline. Why acetyl choline is not used clinically
2. Discuss the different phase I reactions involved in the biotransformation of drugs. Explain the significance of enzyme induction, inhibition and pre systemic metabolism.
3. Classify the different types of antihypertensive drugs with examples. Mention one preferred antihypertensive drug in pregnancy, hypertensive emergency and diabetes mellitus

Short notes**(14x5=70)**

4. What is drug tolerance. List the different types of drug tolerance and mention the mechanisms of their development.
5. Explain the different types of pharmacokinetic drug interactions.
6. Explain the mechanism of positive inotropic action of digitalis. What is the use of it in atrial fibrillation
7. Mention adverse effects and uses of corticosteroids.
8. Different toxicity studies carried out before starting the clinical trial of a new drug.
9. Mention the principles involved in the treatment of acute organophosphorous poisoning. Why pralidoxime is not effective in carbamate poisoning
10. Anabolic steroids.
11. Explain the mechanism of action of glyceryl trinitrate. What can be done to reduce nitrate tolerance
12. Define the term drug dependence. Distinguish between psychological and physical dependence. Outline the general principles of treatment of drug dependence.
13. Outline mechanism of action of insulin and pioglitazone
14. What are mydriatics and miotics and mention two examples for each. Add a note on its clinical uses
15. Explain the terms potentiation and additive effect with suitable examples.
16. Enumerate the drugs used in hyperthyroidism. Mention the specific indications for radioiodine. What is the rationale for using propranolol in hyperthyroidism
17. Explain the mechanism of action, adverse effects and uses of second generation antihistaminics. Mention four examples for them.