

NKT/KS/17/6555**B.Pharm. Semester—III (C.B.S.) Examination****PHARMACOLOGY-I****Paper—4**

Time : Three Hours]

[Maximum Marks : 80

Note :—(1) Question No. 1 is compulsory.(2) Solve any **four** questions from the remaining.

(3) Draw neat labelled diagrams wherever necessary.

1. Solve any **five** :

- Compare the pharmacological profile of neostigmine and physostigmine.
- Explain the significance of plasma protein binding with suitable examples.
- Write principle and methodology of insulin bioassay.
- Describe the symptoms and treatment of myasthenia gravis.
- Justify the use of adrenergic agonists in the treatment of bronchial asthma.
- What is log-dose response curve ? Explain its significance.
- Write a brief note on nuclear receptors.

5×4=20

- Give classification of anti-cholinergic agents. Explain pharmacological profile, clinical indication and adverse effect of anti-muscarinic agents. 15
- Explain mechanism of action, pharmacokinetic adverse effects, contraindication and therapeutic uses of propranolol. 15
- Explain different routes of drug administration along with advantages and drawbacks. Add a note on Enema. 15
- What is first pass metabolism ? Explain in detail various phases of drug metabolism. Add a note on microsomal enzyme induction and inhibition. 15
- Give classification and explain mechanism of action, pharmacokinetic, adverse effects and clinical indications of Anti-cholinesterases agents. 15

7. Write short notes on the following (any **three**) :

- (a) Neuromuscular stimulant drugs
- (b) Excretion of drugs
- (c) Factors affecting drug absorption
- (d) Principle and design of digitalis bio-assay.

3×5=15

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