

Total No. of Questions : 6]

SEAT No. :

**P1992**

**[5145]-504**

[Total No. of Pages : 3

**Third Year B.Pharmacy**  
**3.5.4:PHARMACOLOGY-II**  
**(2013 Pattern) (Semester - V)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Answer to the two section should be written in separate answer books.*
- 3) *Neat diagram must be drawn wherever necessary.*
- 4) *Figures to the right indicate full marks.*

**SECTION - I**

**Q1)** Define Parasympathomimetic drugs. Classify cholinergic drugs with suitable example. Explain biosynthesis, storage, release and metabolism of acetylcholine (Ach). Enlists various cholinergic receptor. **[10]**

OR

Define Anti-adrenergic agents. Classify adrenoceptor blocking drugs with suitable example. Explain pharmacological effect of alpha ( $\alpha$ ) blockers and give therapeutic uses of  $\alpha$ -(alpha) blocker. **[10]**

**Q2)** Answer the following (Any Five): **[15]**

- a) Define the following term.
  - i) Glaucoma
  - ii) Mydriasis
  - iii) Pheochromocytoma
- b) Enlist the difference between parasympathetic and sympathetic nervous system.
- c) Classify anticholinesterase agents with suitable example.
- d) Explain neurohumoral transmission at nerve terminal.

**P.T.O.**

- e) Classify anticholinergic drugs with suitable example.
- f) Explain biosynthesis of Adrenaline.
- g) Give therapeutic uses of atropine.

**Q3) Write a note (Any Two) [10]**

- a) Ganglion blocker.
- b) Organophosphate poisoning and its treatment.
- c) Pharmacotherapy of myasthenia gravis.
- d) Neuromuscular blockers.

### **SECTION - II**

**Q4) Discuss biosynthesis, metabolism, mechanism of action, pharmacological action, and therapeutic uses of testosterone. [10]**

OR

Describe biosynthesis, storage, and release of Insulin. Add a note on Insulin preparation. [10]

**Q5) Answer the following (Any Five) [15]**

- a) Explain mode of action of thyroid hormones.
- b) What are tocolytics? Explain in brief.
- c) Explain calcium homeostasis.
- d) Explain role of gonadotropins in male.
- e) Describe physiological effect of glucagon.
- f) Write the action of prolactin.
- g) Explain mechanism of action of Insulin.

**Q6)** Write a note on (Any 2)

**[10]**

- a) Hormones of Adenohypophysis.
- b) Antithyroid Drugs.
- c) Androgens.
- d) Progestins.

