

Total No. of Questions : 6]

SEAT No. :

**P1453**

**[5049]-504**

[Total No. of Pages : 2

**T.Y. B. Pharmacy**  
**PHARMACOLOGY-II**  
**(2013 Pattern) (Semester-V)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Answers to the two sections 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 parasympathomimetic drugs with suitable example. Explain biosynthesis, storage, release and metabolism of acetylcholine. **[10]**

OR

Define adrenergic blockers. Classify alpha ( $\alpha$ ) blockers with suitable example. Explain the pharmacological effects and therapeutic uses of ( $\alpha$ ) alpha blockers.

**Q2)** Answer the following (Any 5); **[15]**

- a) Explain biosynthesis of catecholamine.
- b) Classify anticholinergic agents with suitable example.
- c) Explain in brief physostigmine.
- d) Give the adrenergic receptor subtypes with their location.
- e) Enlist therapeutic uses of atropine.
- f) Why adrenaline is used in anaphylactic shock?
- g) Define the following term (Any 3):
  - i) Pheochromocytoma
  - ii) Myasthenia gravis
  - iii) Glaucoma
  - iv) Miotics

**P.T.O.**

**Q3) Write a note of the following (Any 2):** **[10]**

- a) Therapeutic uses of Beta ( $\beta$ ) blocker.
- b) Pharmacotherapy of glaucoma.
- c) Organophosphate poisoning.
- d) Skeletal muscle relaxants.

### **SECTION-II**

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

OR

Describe in detail pharmacological actions of glucocorticoids and enlist its therapeutic uses.

**Q5) Answer the following (Any 5):** **[15]**

- a) Explain mechanism of action of oxytocin.
- b) Give therapeutic uses of antithyroid drugs.
- c) Classify oral hypoglycemic agents.
- d) What is SERM?
- e) Explain oral contraceptives.
- f) Enlist complication of Type-2 Diabetes mellitus.
- g) Give mechanism of action of Acarbose.

**Q6) Write a note on (Any 2):** **[15]**

- a) Mineralocorticoids.
- b) Antiprogestins.
- c) Antiandrogens.
- d) Hormones of Adenohypophysis.

