

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 (α) blockers and give therapeutic uses of α -(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.

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- 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.

