

B.Pharm. Semester–VII (C.B.S.) Examination
PHARMACEUTICAL MEDICINAL CHEMISTRY – III
Paper – 2

Time : Three Hours]

[Full Marks : 80

N.B. :— (1) Q. No. 1 is compulsory.

(2) Attempt any **FOUR** questions from remaining.

(3) Draw neat labelled diagrams wherever necessary.

1. Solve any **five** from the following :

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| (a) Discuss the Biosynthesis of adrenergic neurotransmitter. | 4 |
| (b) Give the classification of anti arrhythmic agent. | 4 |
| (c) What is SERM ? Explain in brief. | 4 |
| (d) What is cholinergic agent ? Explain with example. | 4 |
| (e) Write SAR of diuretic. | 4 |
| (f) State the synthesis of clonidine. | 4 |
| (g) What is anticoagulant ? Explain the blood coagulation pathway. | 4 |
| 2. (a) What are female sex hormones ? Explain with classification and SAR of each category. | 8 |
| (b) Write a note on oral contraceptive. | 7 |
| 3. What is antihypertensive agent ? Explain with structure mode of action and SAR of each category. | 15 |
| 4. (a) What do you mean by anticholinergic agent ? Add a note on neuromuscular blocking agents. | 8 |
| (b) Write a brief note on ganglionic blocker. | 7 |
| 5. (a) What is anti-anginal agent ? Give the SAR and synthesis of anti-anginal agents. | 8 |
| (b) Add a note on cardiotonics. | 7 |
| 6. What is adrenoreceptor blocker ? Give the classification and SAR of adrenoreceptor along with synthesis of propranolol. | 15 |
| 7. (a) Give detail emphasis on biosynthesis, storage, release and metabolism of Ach. | 7 |
| (b) Write the Biosynthesis pathway of testosterone and aldosterone from cholesterol. | 8 |