

PHARMACEUTICAL MEDICINAL CHEMISTRY—III**Paper—2**

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) Question No. 1 is compulsory.

(2) Attempt any four questions out of remaining.

(3) Draw neat labeled diagram wherever necessary.

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

(a) Explain cardiotonics with examples.

(b) Write chemical name and synthesis of guanethidine monosulphate.

(c) Discuss about oral contraceptives.

(d) Explain biogenesis of adrenergic neurotransmitters and write about role of alpha methyl tyrosine.

(e) Discuss about neuromuscular blockers.

(f) Write use, chemical name and synthesis of Hydrochlorthiazide.

(g) Explain nitrovasodilators with examples.

5×4=20

2. Explain about action potential of cardiac muscles. Write in detail about chemical classification and mechanism of action of antiarrhythmic agents. 15

3. (a) Give the chemical classification of Diuretics. 7

(b) Write note on anticoagulant and thrombolytic agents. 8

4. Explain stereochemistry of steroids. Write in detail about SAR with examples of adrenocorticoids. 15

5. Write in detail about chemical classification and uses of acetylcholinesterase inhibitors. Write short note on antispasmodics. 15

6. (a) Discuss in detail about estrogens and progestational agents. 8

(b) Write note on adrenoreceptor blockers and write synthesis of Atenolol hydrochloride. 7

7. (a) Explain statins and other agents as antihyperlipidemics. 8

(b) Discuss SAR of androgens. 7