

B.Pharm. Semester—IV (C.B.S.) Examination**PHARMACOLOGY—II****Paper—4**

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) Question No. 1 is compulsory.(2) Solve any *four* questions from remaining.

(3) Draw neat labeled diagram wherever necessary.

(4) Assume suitable data wherever necessary.

1. Justify the following statements (any *five*) :

(A) Use of epinephrine in hypovolemic shock.

(B) Digitalis as cardiotonic.

(C) Aldosterone antagonist as potassium sparing diuretics.

(D) ACE inhibitors as mixed vasodilators.

(E) Quinidine as antiarrhythmic drug.

(F) Folic acid as haematinics.

(G) HMG-COA reductase inhibitors as hypoglycemic agents.

5×4=20

2. Describe the compensatory mechanism operated in congestive cardiac failure; discuss in detail the pharmacotherapy for congestive cardiac failure. 15

3. (A) Explain biosynthesis, storage, distribution and action of histamine. 8

(B) Explain in detail about 5-hydroxytryptamine and its antagonist. 7

4. (A) Explain the therapeutic potential of β -blockers. 8

(B) Discuss the pathophysiology of angina pectoris and suggest treatment for it. 7

5. (A) Classify NSAID's. Discuss the mechanism and indications of any one drug belonging to each class. 10

(B) Explain prostaglandin synthesis pathway in detail. 5

6. (A) Classify anticoagulants with examples. Give their mechanism of action and adverse effect. 8

(B) Discuss various contraindications of high ceiling and thiazide diuretics. 7

7. Write short notes on (any *three*) :

(A) Therapeutic potentials of statins

(B) Haematinics

(C) Fibrinolytic agents

(D) Mechanism involved in arrhythmia. 3×5=15