

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