

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. 74. (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