

**B.Pharm. Semester–VI (C.B.S.) Examination**  
**CLINICAL PHARMACOTHERAPEUTICS—I**  
**Paper—5 (6T5)**

Time : Three Hours]

[Full Marks : 80

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

- (2) Solve any **FOUR** questions from the remaining.
- (3) Draw neat labelled diagram wherever necessary.
- (4) Discuss the reaction, mechanism wherever necessary.
- (5) Use of electronic calculator is permitted.
- (6) Assume suitable data wherever necessary.

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

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| (a) What is essential drug concept ? Explain with suitable examples.   | 4  |
| (b) Write down the etiopathogenesis of cystic fibrosis and suggest suitable therapy for it.  | 4  |
| (c) What is rational drug formulations ? Describe with suitable examples.  | 4  |
| (d) What is the pathogenesis of acute renal failure ? Give outline for its immediate treatment.  | 4  |
| (e) Justify the use of Carbidopa and Levodopa combination in parkinsonism  | 4  |
| (f) Give the rationale for combination of proton pump inhibitor and prokinetic agents in the treatment of GERD.  | 4  |
| (g) Explain the mechanism of action, pharmacokinetics, uses and adverse effects Monteleukast.  | 4  |
| 2. Explain various factors involved in etiopathogenesis of hypertension. Give classification, mechanism of action, adverse effects and specific clinical indications of anti-hypertensive drugs. | 15 |
| 3. (a) Describe various inflammatory mediators asthma. Justify importance of cyclic Amp activators in its treatment.   | 10 |
| (b) What is Systemic Lupus erythematin ? Give its pharmacotherapy.   | 5  |

4. Give detailed pharmacological account of drugs used in the treatment of hyperlipidaemias. Add a note on obesity and associated complications. 15
5. (a) Explain pathophysiological aspects and typical symptoms of congestive heart failure. Describe mechanisms of action, pharmacokinetic, adverse effects and therapeutic uses of digitalis. 10
- (b) Describe the pathogenesis and treatment of Hepatitis B. 5
6. (a) What are the different types of anemias, compare their pathological aspects ? 5
- (b) Explain the pharmacological importance of Allopurinol in the treatment of Gout. 5
- (c) Justify the importance of Quetiapine in the treatment of depression. 5
7. Write a brief note on pathogenesis and treatment of any **three** of the following :
- (a) Rheumatoid arthritis
- (b) Chronic obstructive pulmonary diseases
- (c) Alzheimer's diseases
- (d) Spondylitis
- (e) Angina pectoris. 3×5=15