

- 1.(a) Explain in detail the phase-I reactions of drug metabolism with examples. (7)
- (b) Explain the role of prodrugs in drug design. (7)

OR

- (c) Explain different physicochemical properties which influence biological activity. (7)
 - (d) Write the importance of steric features of drugs. (7)
- 2.(a) What are adrenomimetics? Write SAR and uses of adrenergic drugs. (8)
 - (b) Classify parasympathomimetics with examples. (6)

OR

- (c) Give the synthesis of (i) Atenolol (ii) Salbutamol. (8)
 - (d) Write the structures and uses of acetyl choline esterase inhibitors. (6)
- 3.(a) Give the classification of Antihypertensive drugs with structures and write the synthesis of captopril and clonidine. (14)

OR

- (b) Classify anitarrhythmic drugs with one suitable example for each class. (6)
 - (c) Write notes on antihyperlipidemic agents. (8)
- 4.(a) Define and classify diuretics with examples. (6)
 - (b) Write about hypoglycemic drugs. (8)

OR

- (c) Write notes on Immunostimulants. (7)
 - (d) Give the synthesis of (i) Amiloride (ii) Glyclazide (7)
- 5.(a) Write notes on proton pump inhibitors. (7)
 - (b) Explain in detail about anti-coagulation. (7)

OR

- (c) Write the synthesis, M.O.A. of following drugs: (8)
(i) Citrazine (ii) Ranitidine
- (d) Explain the SAR of H₁ antagonists. (6)
