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- 2 Write any **three** : 9
- (a) Enumerate various therapeutic uses of botulinum toxin. Discuss how it brings benefits for these conditions.
  - (b) Give your comments regarding rationality and limitations on "cough mixtures".
  - (c) Enlist various drugs for angina pectoris. Discuss briefly how nitrates bring benefits for such patient. (Exclude molecular mechanism in your answer).
  - (d) Discuss with suitable examples the concept of competitive and noncompetitive antagonism of drug.
  - (e) Describe with suitable examples the concept of up and down regulation of receptor.
- 3 Answer any **three** : 12
- (a) Explain with suitable examples how OTC drugs can be hazardous in therapeutics.
  - (b) What is home made ORS ? Describe its advantages.
  - (c) Enlist various drugs from different categories for peptic ulcer. Describe briefly the drug therapy of non-healing peptic ulcer.
  - (d) What is "thalidomide tragedy" ? What lesson the world had learnt from that ?
  - (e) Enlist various anticoagulants. Discuss briefly the clinical uses and monitoring of anticoagulant therapy.
- 4 Answer any **two** : 10
- (a) Classify various anticholinergic drugs. Describe their therapeutic uses giving pharmacological basis.
  - (b) Discuss various requirements and limitations of clinical trials.
  - (c) Classify various antihypertensives. Discuss general principles of drug therapy of hypertension. (Your answer should include international society of hypertension (ISH) and JNC-7th report guidelines)