



12. (a) (i) What are the different strategies to study the mechanism of drug action? (6)  
(ii) Discuss the pharmacokinetic properties of a drug. (10)

Or

- (b) Explain the different factors which affect the pharmacodynamics of a drug. (16)
13. (a) (i) Write the reaction involved in synthesis of paracetamol. (2)  
(ii) Describe the special requirements for bulk drug manufacture. (14)

Or

- (b) (i) Outline the production of compressed tablets. (8)  
(ii) Brief the process of sugar-coating of tablets. (8)
14. (a) (i) How do tablet presses work? (4)  
(ii) Discuss the formulation of any two topical applications. (12)

Or

- (b) (i) Describe the packaging techniques in drug manufacture. (8)  
(ii) What is the impact of Total Quality Management in pharmaceutical industry? (8)
15. (a) Classify antibiotics. Write the mechanism of action, antibacterial spectrum and therapeutic uses of Tetracycline. (16)

Or

- (b) Write the source, physiological role, therapeutic uses and preparations of the following vitamins
- (i) Vitamin B12. (8)  
(ii) Vitamin C. (8)