

(3 Hours)

[Total marks : 80

N.B : Q1 is compulsory

Answer any three out of remaining five questions

Draw neat and labeled diagram wherever necessary.

- Q1]a) Describe drug tolerance and bioavailability of drug with respect to drug dosing. 05M  
b) Describe Proteins as drug targets 05M  
c) Classification of drugs 05M  
d) Write short note on HIV antiviral therapy 05M
- Q2]a) Describe antiviral drugs used against RNA viruses 10M  
b) Describe the production of Cytokines as biopharmaceutical agents 10M
- Q3]a) Describe the strategies involved in production of therapeutic proteins 10M  
b) Explain in detail about different drug targets. 10M
- Q4]a) What are the different modes of drug administration? 10M  
b) Describe anticancer drugs used as Antimetabolites 10M
- Q5]a) Describe the production of Hormones and Cytokines as biopharmaceutical agents 10M  
b) Describe antibacterial agents inhibiting cell wall synthesis 10M
- 6]a) Write a note on Patenting and regulatory affairs related to drug discovery and development 10M  
b) Explain the role of nucleic acids as drug targets. 10M