



- 2** Answer any three of the following : **14**
- Write the classification of hypoglycemic agents. Give the synthesis of Chlorpropamide - and Phenformin.
  - What are proton pump inhibitors? Give the synthesis of Omiprazole and Ranitidine.
  - Give the general synthesis of sulphonamide and write the structure of Silversulfadiazine and Sulfadoxin.
  - Write the full form of HIV and discuss lifecycle of HIV.
- 3** Answer any two of the followings : **14**
- Write the classification of anticancer agents and give the synthesis of Cyclo-phosphamide and 5-fluorouracil.
  - Define the term Hypnotics and sedative. Write the synthesis of Alprazolam and Hydroxyzine.
  - Draw a malarial cycle and explain it briefly.
- 4** Answer the followings : **14**
- Define general and local anesthetic. Give the synthesis of Verapamil and Lignocaine.
  - Give the synthesis of Mefloquine and atovaquone.
  - Discuss the synthesis of Metronidazole and Ornidazole.
- 5** Give the synthesis and application of the followings : **14**  
(any three)
- Nalidixic acid and Ampicillin
  - Indinavir and zidovudine
  - Diclofenac sodium and Ketoprofen
  - Cetirizine and Celecoxib.
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