

- 3 Answer any **two** of the following : 14
- (a) Classify sulfa drugs. Explain chemistry of Sulfonamides.
 - (b) Give synthesis and use of sulphalene and trimethoprim.
 - (c) Explain synthesis and mechanism of short-acting sulfa drug.
 - (d) Give synthesis and use of sulphamerazine.
- 4 Answer any **two** of the following : 14
- (a) Explain synthesis and use of anticholinergic drugs.
 - (b) Explain physiological effect of histamine. Give synthesis of cetirizine.
 - (c) Write a short note on amino alkyl ethers as antihistamine agent.
 - (d) What is local anesthetic? Give brief account of local anesthetics.
- 5 Answer any **seven** of the following : 14
- (a) What is chemotherapeutics agent?
 - (b) What is drug design? Give full name of SBDD
 - (c) Gives difference between HPLC and reverse phase HPLC.
 - (d) Define suspending agents and emulsifying agents.
 - (e) Give name and structure of any two gram positive antibacterial drugs.

- (f) Define polyene antibiotics and give any two polyene antibiotics drugs name.
 - (g) Which spectroscopy helps to detect chlorine and bromine? Give its principles.
 - (h) Give difference between general anesthetic and local anesthetic.
 - (i) What is a drug stimulating?
 - (j) Write definition and use of antihistamine drugs.
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