

2022
B.A./B.Sc.
Fourth Semester
SKILL ENHANCEMENT COURSE – 2
CHEMISTRY
Course Code: CHS 4.11
(Pharmaceutical Chemistry)

Total Mark: 35

Pass Mark: 14

Time: 2 hours

Answer any five questions:

1. What are drugs? Discuss the discovery, design and development of drugs.
7
2. (a) Write short notes on: 3+4=7
 - (i) Analgesic
 - (ii) Antipyretic
 - (iii) Antibiotics(b) What is zidovudine? Give its preparation, structure and uses.
3. Define antifungal agent. Explain the properties, preparation and uses of trimethoprim. 7
4. Explain the central nervous system agents - phenobarbital and diazepam. $3\frac{1}{2} \times 2 = 7$
5. Write notes on: 2+2+3=7
 - (a) Dapsone
 - (b) Aspirin
 - (c) Ibuprofen
6. What is aerobic fermentation? Explain one method for the preparation of citric acid. 1+6=7

7. What are vitamins? How are they classified? Explain ascorbic acid and give its uses. $1\frac{1}{2}+1\frac{1}{2}+4=7$
8. What are antiviral agents. Discuss the antiviral agent - acyclovir. 7
9. Write notes on any two of the following: $3\frac{1}{2}+3\frac{1}{2}=7$
- (a) Sulphamethoxazol
 - (b) Chloromycetin
 - (c) Vitamin B
10. Explain the industrial preparation of ethanol. Support your answer with diagram. 7
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