

2024
B.A./B.Sc.
Fourth Semester
 SKILL ENHANCEMENT COURSE – 2
CHEMISTRY
Course Code: CHS 4.11
 (Pharmaceutical Chemistry)

Total Mark: 35
Time: 2 hours

Pass Mark: 14

Answer two questions, taking one from each unit.

UNIT-I

1. (a) What are analgesic compound? Give the preparation, properties, and uses of aspirin. 1+5=6
- (b) Discuss the retrosynthetic approach for the preparation of medicinal compound. 5½
- (c) Write a note on the following: 3×2=6
 - (i) Acyclovir
 - (ii) Ibuprofen

2. (a) Explain in detail the design and development of drugs. 6½
- (b) What are antibacterial agents? How are sulphonamides prepared? Give its structure, properties, and uses. 5
- (c) Write short notes on the following: 2×3= 6
 - (i) Paracetamol
 - (ii) Drug discovery
 - (iii) Antipyretics

UNIT-II

3. (a) What are vitamins? Discuss the deficiency of vitamins in human body. 5
- (b) Define antibiotics. What are the required conditions for a substance to be considered as an antibiotic? 4

- (c) What is HIV? Give the preparation, structure, and uses of zidovudine. 1+4= 5
- (d) Write a note on phenobarbitone. 3½
4. (a) Discuss ascorbic acid giving its structure, deficiency, and uses. 6
- (b) What do you understand by streptomycin? Give its structure and uses. 5½
- (c) Write short notes on the following: 2×3=6
- (i) Chloromycetin
 - (ii) Vitamin B₂
 - (iii) Diazepam
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