

School of Medical and Allied Sciences

Pharmacy
ETE - Jun 2023

Time : 3 Hours

Marks : 75

Sem IV - BP401T/BPHT4001

Pharmaceutical Organic Chemistry III Theory

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

1. Demonstrate medicinal application of furan. K2 CO3 (2)
2. Name full form of NaBH₄ and its use. K1 CO5 (2)
3. Tell about the physical characteristic of furan. K1 CO3 (2)
4. Demonstrate about pyrrazole electrophilic substitution reaction. K2 CO4 (2)
5. Illustrate atropisomer with an example. K2 CO2 (2)
6. Tell about the structure of oxazole and pyrrazole. K1 CO4 (2)
7. Illustrate racemic mixture along with example. K2 CO1 (2)
8. Define conformational isomerism. K1 CO2 (2)
9. Define stereoisomerism. K1 CO1 (2)
10. Explain what you mean by reduction. K2 CO5 (2)
- 11) Identify absolute configuration of R and S system. K3 CO1 (5)

OR

- Identify meso compounds with example. K3 CO1 (5)
12. Examine STEREOSPECIFIC REACTIONS with example. K4 CO2 (5)
- OR**
- Examine STEREOSELECTIVE REACTIONS with example.
13. Identify D & L-System of configuration with example. K3 CO2 (5)
 14. Identify suffix use for different ring size in heterocyclic chemistry. K3 CO3 (5)
 15. Examine steps involved for the determination of R and S system of configuration. K4 CO1 (5)
 - 16) Analyze chemical reaction of pyrrole. K4 CO3 (5)

OR

- Analyze thiophene's electrophilic substitution reactions. K4 CO3 (5)
17. Discuss chemical synthesis of imidazole. K6 CO6 (5)
 18. Explain chemical reactions of thiazole and oxazole. K5 CO4 (10)
 - 19) Discuss reaction of sodium borohydride with different molecules. K6 CO5 (10)

OR

- Discuss about chemical reaction of NaBH₄ with different molecules. K6 CO5 (10)