

QP Code: 222006

Reg. No.....

**Second Semester B. Pharm Degree Supplementary Examinations  
January 2020**

**Pharmaceutical Organic Chemistry I  
(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- Answer all questions
- Write equations wherever necessary

**Essays**

**(2x10=20)**

1. Explain the mechanism of halogenation of alkenes with a suitable example.
2. What are the nucleophilic substitution reaction. Describe some typical nucleophilic substitution reaction of alkyl halides.

**Short Notes**

**(7x5=35)**

3. Effect of substituents on the basicity of aliphatic amines.
4. Explain the mechanism of dehydrohalogenation of alkyl halides
5. Inductive effect of carboxylic acids. Give examples.
6. Write the rule IUPAC naming of organic compounds.
7. Stability of alkenes.
8. Explain the tests to distinguish the three types 1<sup>o</sup>, 2<sup>o</sup> and 3<sup>o</sup> of alcohol.
9. Give the mechanism of free radical addition of conjugated dienes.

**Answer Briefly**

**(10x2=20)**

10. Give two examples for functional group isomerism.
11. Write the structure and uses of Tetrachloroethylene and Chlorbutanol.
12. Write the structure and uses of glycerol.
13. Give an example of Cannizzaro's reaction.
14. State Saytzeff's rule.
15. Diel's Alder reaction.
16. Write the structure and uses of methyl salicylate.
17. State Markownikoff's rule.
18. What are the factors effecting E<sub>1</sub> and E<sub>2</sub> reactions.
19. Define position isomerism and give examples

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