

QP Code: 222006

Reg. No.....

Second Semester B.Pharm Degree Examinations July 2018

Pharmaceutical Organic Chemistry I  
(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- Answer all questions
- Write equations wherever necessary

Essays

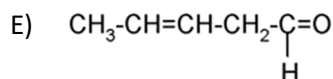
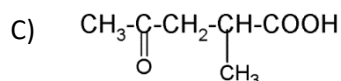
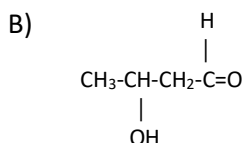
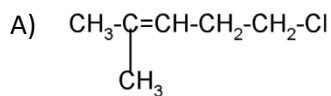
(2x10=20)

1. Discuss E<sub>1</sub> and E<sub>2</sub> reactions with the help of suitable examples and discuss its mechanisms
2. Outline any four methods for the preparation of aldehydes. Explain nucleophilic addition reactions of aldehydes.

Short Notes

(7x5=35)

3. How the substituents are affecting the basicity of amines.
4. Write IUPAC nomenclature for the following structure.



5. Discuss free radical addition reactions of alkenes with its mechanism.
6. Outline any two preparation and reactions of alkyl halides.
7. Add a note on addition reactions of conjugated dienes
8. Explain Markownikoff's rule with mechanism.
9. Explain inductive effect and its role in the acidity of carboxylic acid.

Answer Briefly

(10x2=20)

10. Construct the structure of 4-Chloro-2-butene and 3-methyl-2-butanol
11. Electromeric effect.
12. Carbocation
13. Mention any two qualitative tests for amines.
14. Saytzeffs Rule
15. Cannizzaro reaction
16. Structure and uses of Ethylene diamine and Glycerol
17. Mention uses of Amphetamine and Chloral hydrate
18. Carboxylic acids are more acidic than alcohols. justify
19. Complete the reaction:  $\text{CH}_3\text{COCH}_3 + \text{Br}_2 \xrightarrow{\text{H}^+}$

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