

Rajiv Gandhi University of Health Sciences, Karnataka

Second Semester B.Pharm Degree Examination – 18-Mar-2021

Time: Three Hours

Max. Marks: 75 Marks

Pharmaceutical Organic Chemistry-I

Q.P. CODE: 5006

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary
All the questions are compulsory

LONG ESSAYS

2 x 10 = 20 Marks

- a. Define and classify carbocation. Add a note on stability of carbocation.
b. Differentiate between SN^1 and SN^2 reactions
OR
Discuss the mechanism, reactivity and factors effecting in Elimination Uni-molecular reaction.
- a) Explain the stability of conjugated dienes.
b) What is peroxide effect? Write its mechanism

SHORT ESSAYS

7 x 5 = 35 Marks

- Write the mechanism and orientation of SN^1 reaction with suitable example
OR
What are Cycloaddition reactions? Explain Diel's alder reaction with mechanism
- Explain the mechanism of Perkin's condensation
OR
Give the structure and uses of a) Benzyl alcohol b) Benzaldehyde c) Chloroform d) Propylene glycol e) Ethyl alcohol
- Explain the basicity of amines with suitable examples.
- Discuss the acidity of carboxylic acid.
- Write the statement and reaction mechanism of aldol condensation.
- Explain in detail Saytzeff's rule.
- Write a note on free radical addition reaction.

SHORT ANSWERS

10 x 2 = 20 Marks

- Write the structure and IUPAC name of a) Acetone b) Diethyl ether.
- Write the structure of a) 1, 3-butadiene b) 2,4,6-tribromo aniline.
- What is peroxide effect? Give examples.
- Write qualitative test for Benzaldehyde and ether.
- Write the structure and uses of Tartaric acid and Salicylic acid.
- Write any one qualitative test for Acetone and Paraldehyde.
- What are leaving groups? Give example.
- Write the structure and IUPAC name of: a) Methyl formate b) Isopropyl alcohol
- What is elimination reaction? Give an example.
- Explain the Chemical reactions of Alcohol.

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