

B.Pharm II Year I Semester (R19) Supplementary Examinations September 2022

PHARMACEUTICAL ORGANIC CHEMISTRY – II

Time: 3 hours

Max. Marks: 75

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Define Huckel's rule. Give example.
 - Write the structure and uses of BHC.
 - Write the synthetic uses of Aryl Diazonium salts.
 - Give any two qualitative tests for cresols.
 - Define fats and oils.
 - Write the principle involved in Acetyl value.
 - Define polynuclear hydrocarbons. Give examples.
 - Give the structure and uses of anthracene.
 - What are cycloalkanes? Give examples.
 - Write any one reaction for cyclobutane.

PART – B**(Answer any two questions: 02 X 10 = 20 Marks)**

- 2 (a) Explain in detail resonance in benzene.
(b) Write a short note on orbital picture.
- 3 Discuss in detail the acidity of phenols.
- 4 Write in detail hydrogenation of oils.

PART – C**(Answer any seven questions: 07 X 05 = 35 Marks)**

- 5 Explain the mechanism of Friedel Crafts alkylation.
- 6 Discuss the effect of substituents on acidity of phenols.
- 7 Explain the halogenation reaction in benzene.
- 8 Write any five important reactions of benzoic acid.
- 9 Give the important reactions of fatty acids.
- 10 Explain the rancidity of oils.
- 11 Write the two synthetic routes for any one polynuclear hydrocarbons.
- 12 Write in detail Sachse Mohr's theory.
- 13 Write the limitations of Baeyer's strain theory.

B.Pharm II Year I Semester (R19) Regular & Supplementary Examinations April 2022

PHARMACEUTICAL ORGANIC CHEMISTRY – II

Time: 3 hours

Max. Marks: 75

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Write the structure & uses of DDT.
 - Write any five aromatic characters of benzene.
 - Write the structure and use of Naphthols.
 - Give any two qualitative tests for resorcinol.
 - Define Reichert Meissel value.
 - What is hydrolysis? Give example.
 - Give the structure and uses of Napthalene.
 - Give any two derivatives for anthracene.
 - Write the limitations of Bayer's strain theory.
 - Write any one reaction for cyclopropane.

PART – B**(Answer any two questions: 02 X 10 = 20 Marks)**

- 2 (a) Discuss in detail synthetic evidences in the derivation of structure of benzene.
(b) Write the sulphonation reaction in benzene.
- 3 Explain the effect of substituents on basicity.
- 4 Write a short note on drying of oils.

PART – C**(Answer any seven questions: 07 X 05 = 35 Marks)**

- 5 Explain the mechanism of Friedel craft acylation.
- 6 Discuss with example basicity of amines.
- 7 Write in detail effect of substituents on reactivity in benzene.
- 8 Write the effect of substituents on acidity of aromatic acids.
- 9 Explain the principle and significance of saponification value.
- 10 Define ester value. write the principle and significance of ester value.
- 11 Explain Baeyer's strain theory.
- 12 Write any two important reaction of any one polynuclear hydrocarbons.
- 13 Write in brief Coulson and Moffitt's modifications.

B.Pharm II Year I Semester (R19) Supplementary Examinations August 2021

PHARMACEUTICAL ORGANIC CHEMISTRY – II

Time: 3 hours

Max. Marks: 75

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- What is Friedel craft acylation?
 - State Huckel's rule.
 - Give any two uses of phenol.
 - Write any one reaction of benzoic acid.
 - What is ester value?
 - What is saponification value?
 - Explain structure of phenanthrene and diphenylmethane.
 - Give medicinal uses of naphthalene and anthracene.
 - Give any one reaction of cyclopropane.
 - Write any two limitations of Baeyer strain theory.

PART – B**(Answer any two questions: 02 X 10 = 20 Marks)**

- 2
- Explain briefly about on acidity of phenols.
 - Write a note on sulphonation reaction of benzene.
- 3
- Explain principle in determination of acid value. Give its significance.
 - Comment on rancidity of oils.
- 4
- Discuss Mohr's theory of stainless rings.
 - List any two methods of synthesis of phenanthrene.

PART – C**(Answer any seven questions: 07 X 05 = 35 Marks)**

- 5
- Write short notes on resonance in benzene.
 - Write in detail about Friedel craft alkylation reactions of benzene.
- 6
- Give structure and uses of resorcinol and cresols.
 - Write a note on effect of substituents on basicity of amines.
- 7
- Illustrate on hydrolysis of fatty acids.
 - Explain principle in determination of iodine value.
- 8
- Give any two methods of synthesis of anthracene.
- 9
- Give structure and medicinal uses of triphenylmethane.
- 10
- Write short notes on Coulson Moffitt's modification.
- 11
- Give structure and uses of Saccharin.
- 12
- Enlist different qualitative tests for phenols. Explain any one.
- 13
- What is RM value? Give its significance.

B.Pharm II Year I Semester (R19) Regular Examinations March 2021

PHARMACEUTICAL ORGANIC CHEMISTRY – II

Time: 3 hours

Max. Marks: 75

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- State Huckel's rule.
 - What is Friedel crafts alkylation?
 - Give any two uses of naphthols.
 - Give any one reaction of benzoic acid.
 - What is acid value?
 - What is saponification value?
 - Give structure of naphthalene and anthracene.
 - Give medicinal uses of phenanthrene and diphenylmethane.
 - Give any two limitations of Baeyer strain theory.
 - Give any one reaction of cyclopropane.

PART – B**(Answer any two questions: 02 X 10 = 20 Marks)**

- 2
- Write a note on nitration reaction of benzene.
 - Add a note on acidity of phenols.
- 3
- Comment on rancidity of oils.
 - Explain principle in determination of iodine value. Give its significance.
- 4
- Write any five reactions of phenanthrene.
 - Discuss Mohr's theory of strain less rings.

PART – C**(Answer any seven questions: 07 X 05 = 35 Marks)**

- 5
- Write a detail note halogenations reactions of benzene.
 - Add note on resonance in benzene.
- 6
- Write a note on basicity of amines.
 - Give structure and uses of resorcinol and cresols.
- 7
- Write a note on hydrolysis of fatty acids.
 - Explain principle in determination of RM value.
- 8
- Give any two methods of synthesis of naphthalene.
 - Give any two reactions of anthracene.
- 9
- Give any two methods of synthesis of phenanthrene.
 - Give the structure and medicinal uses of triphenylmethane.

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- 10 (a) Give any one reaction of cyclobutane.
(b) Add note on Coulson Moffiu's modification.
- 11 (a) Give structure and uses of chloramines.
(b) Add note on substituent effect on benzene reactivity.
- 12 (a) Give synthetic uses of Aryl Diazonium salts.
(b) Enlist different qualitative tests for phenols. Explain any one.
- 13 (a) What is acetyl value? Give its significance.
(b) Write a short note on Baeyer strain theory.
