

Total No. of Questions: 3

Total No. of Printed Pages: 2

[2]

Enrollment No.....



Faculty of Pharmacy
End Sem (Odd) Examination Dec-2022

PY3CO09 Pharmaceutical Organic Chemistry-II

Programme: B. Pharm.

Branch/Specialisation: Pharmacy

Duration: 3 Hrs.

Maximum Marks: 75

Note: All questions are compulsory. Internal choices, if any, are indicated.

- Q.1
- Write down the structure and uses of DDT and BHC. 2
 - Define electrophile with examples. 2
 - Write down the uses of resorcinol and naphthol. 2
 - What are aromatic amines. 2
 - What is saponification value. 2
 - Define iodine value. 2
 - Write down structure and medicinal uses of naphthalene. 2
 - Enlist polynuclear hydrocarbons and also draw their structures. 2
 - What are the limitations of Baeyer's strain theory. 2
 - Write down the different theories associated with stabilities of cycloalkanes. 2

- Q.2
- Attempt any two:
- Explain aromatic electrophilic substitution reactions in benzene with respect to halogenations and Friedel craft acylation with mechanism. 10
 - Give synthesis and reactions of phenols. Discuss effect of substituents on acidity of phenols. 10
 - Explain resonance, aromaticity and Huckel's rule in benzene. 5
 - Why aniline weaker base than ammonia? Explain the effect of substituent on basicity of aromatic amines. 5

- Q.3
- Attempt any seven: Two questions from each section is compulsory.

Section - A

- Discuss the hydrolysis, rancidity and drying of oils with suitable example. 5

- What do you mean by analytical constants? Write principle and procedure involved in the determination of saponification value. 5
- Write principle and procedure involved in the determination of acid value. 5

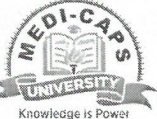
Section - B

- Give synthesis, reactions and uses of anthracene. 5
- Write down preparation and reactions of diphenylmethane. 5
- Give structures, reactions and uses of naphthalene. 5

Section - C

- Explain Baeyer strain theory of stability of cycloalkanes and give its limitations. 5
- Explain Sachse-Mohr theory of stability of cycloalkanes 5
- Write down significance and principle involved in Reichert Meissl Value. 5

Scheme of Marking

	Faculty of Pharmacy	
	End Sem (Odd) Examination Dec-2022	
	PY3CO09 Pharmaceutical Organic Chemistry-II	
Programme: B. Pharma	Branch/Specialisation:	

Duration: 3 Hrs.

Maximum Marks: 75

Note: The Paper Setter should provide the answer wise splitting of the marks in the scheme below.

Q.1	i)	Write down the Structure and uses of DDT and BHC.	2
		1Marks Each	
	ii)	Define electrophile with examples.	2
	iii)	Write down the uses of resorcinol and naphthol.	2
		1Marks Each	
	iv)	What are aromatic amines.	2
	v)	What is saponification value.	2
	vi)	Define Iodine Value.	2
	vii)	Write down Structure and medicinal uses of naphthalene.	2
		1Marks Each	
	viii)	Enlist Polynuclear hydrocarbons and also draw their structures.	2
		1Marks Each	
	ix)	What are the limitations of Baeyer's strain theory.	2
	x)	Write down the different theories associated with stabilities of cycloalkanes.	2
Q.2		Attempt any two:	
	i.	aromatic electrophilic substitution reactions	4 Marks
		halogenations	3 Marks
		Friedel craft acylation with mechanism.	3 Marks
	ii.	Synthesis	3 Marks
		reactions of Phenols	3 marks
		Discuss effect of substituents on acidity of phenols.	4 Marks
	iii.	(a) Explain resonance, aromaticity and Huckel's rule in benzene.	5
		1.5+1.5+2	
		(b) Why aniline weaker base than ammonia? Explain the effect of substituent on basicity of aromatic amines.	5
		2+3	

Q.3		Attempt any seven: Two questions from each section is compulsory.	
		Section - A	
	i.	Discuss the hydrolysis, rancidity and drying of oils with suitable example.	5
		1.5+1.5+2	
	ii.	What do you mean by analytical constants? Write principle and procedure involved in the determination of Saponification value.	5
		2+3	
	iii.	Write principle and procedure involved in the determination of acid value.	5
		2+3	
		Section - B	
	iv.	Give synthesis, reactions and uses of Anthracene.	5
		2+2+1	
	v.	Write down Preparation and reactions of Diphenylmethene.	5
		2.5+2.5	
	vi.	Give structures, reactions and uses of Naphthalene.	5
		1+2+2	
		Section - C	
	vii.	Explain Baeyer strain theory of stability of Cycloalkanes and give its limitations.	5
		3+2	
	viii.	Explain Sachse-Mohr theory of stability of cycloalkanes	5
	ix.	Write down significance and principle involved in Reichert Meissl Value.	5
		2+3	
