B.A. / B.Sc. SEMESTER 4 EXAMINATION, 2020 FAKIR CHAND COLLEGE CENTRE (551)

INSTRUCTIONS FOR CANDIDATES

READ ALL THE INSTRUCTIONS CAREFULLY BEFORE WRITING ANSWERS

- 1. Total TIME OF EXAMINATION: 2 HOURS
- Question Paper Comprises Of Two Separate Questions Theoretical (40 Marks) And
 Internal Examination (10 Marks). Candidates Must Have To Answer All The Two
 Separately And Finally Have To Prepare A Single pdf File By Scanning All The Papers
 Clearly And Serially (According To Page Numbers).
- 3. ATTACH ANYONE PREVIOUS SEMESTER ADMIT CARD As The Last Page Of The pdf File
- 4. Use Only WHITE PLAIN A4 PAPERS For Writing Answers
- 5. Use **ONLY BLACK INK** For Writing Your Answers
- Give A TOP PAGE With Clear Mention Of University REGISTRATION NO. AND UNIVERSITY
 ROLL NO. Of Anyone Previous Semester
- 7. GIVE PAGE NO. At The Top Right/Middle Of Each Page
- 8. Give AT LEAST 1CM MARGINS In All The Four Sides Of Each Page

2020

B.A. /B.Sc. Semester 4 Examination University of Calcutta CHEMISTRY – HONOURS THEORETICAL

Paper: SEC-B F.M. 40

FAKIR CHAND COLLEGE CENTRE(551)

2x15

1. Answer ANY FIFTEEN questions:

a)	Draw the structure of most active isomer of Benzenehexachloride?						
b)	What happens when benzene is subjected to react with chlorine in presence of UV rays?						
c)	Wr	Write the full name of DDT.					
d)	Wr	Write the chemical equation of the preparation of DDT.					
e)	Wr	Write the name of two organophosphate pesticides.					
f)	Write the chemical equation for the formation of Parathion.						
g)	Draw the structure of Chloranil.						
h)	Write the chemical equation for the preparation of Chloranil.						
i)	Write two examples of anilide group containing pesticides.						
j)	How would you prepare Butachlor from Alachlor?						
k)	Write two uses of DDT						
1)	Write two uses of Parathion.						
m) How would you prepare Malathion from dithoic acid?							
n)	Write chemical name of Parathion.						
o)	How will activity be changed if -CCl ₃ group of DDT is replaced by -(CH ₃) ₃ group?						
p)	How does DDT function as an insecticide?						
q)	Draw the structure of Carbofuran.						
r)	Write the mode of action of Butachlor.						
Answer ANY TWO questions from Question Nos. 2 to 4.							
2.	a)	Write uses of Malathion.	2				
	b)	Briefly explain the mode of action of Malathion	3				
3.	a)	Explain the mode of action of Carbofuran.	3				
	b)	How would you prepare Alachlor?	2				
4.	a)	Write structure-activity relationship of Gammexane.	3				
	b)	Write the chemical name of Alachlor.	2				

2020

B.A. /B.Sc. Semester 4 Examination University of Calcutta CHEMISTRY – HONOURS INTERNAL EXAMINATION

Paper: SEC-B F.M. 10

FAKIR CHAND COLLEGE CENTRE(551)

Answer all the questions. Choose the correct option in each case and report (no need to write the answer in sentence): 1x10

a) D	DT is a pesticide of						
	i) Organochlorine	ii) Organophosphate	iii) Anilide	e iv) Carbamate			
b) Li	ndane is the						
	i) α - isomer ii) β -	isomer α- isomer	iii) γ – isomer iv) none of these				
c) To	xic effect of DDT is du	ie to					
	i) benzene ring	ii) –CCl ₃ group	iii) –chlorobenzer	ne group iv) none of these			
d) M	alathion is						
	i) Organochlorine	ii) Organophosphate	iii) Anilide iv)	Carbamate			
e) Par	rathion is						
	i) Organochlorine	ii) Organophosphate	iii) Anilide iv)	Carbamate			
f) Pes	ticide which contains q	uinone ring is					
	i) Chloranil	ii) DDT	iii) Gammexane	iv) Alachlore			
g) Alachlor mainly used as							
	i) herbicide	ii) antifungal	iii) insecticide	iv) none of these			
h) Butachlor mainly used as							
	i) herbicide	ii) antifungal	iii) insecticide	iv) none of these			
i) M	alathion is detoxified b	py					
	i) heat	ii) UV	iii) carboxyesteras	ses iv) none of these			
j) Par	rathion may be rendered	d nontoxic by applicati	on of				
	i) alkaline solution	ii) acidic solution	iii) heat iii)	all of them			