

Instructions to the candidates

No Additional Booklets are given

1. Ensure that Part-1 is correctly filled on page-1 of the answer booklet.
2. Report missing Sl.No., any damage or missing pages in the answer booklet to the Room Supervisor immediately.
3. Use either BLUE or BLACK ink/ball/gel pen only.
4. Write the question numbers properly in the left margin.
5. Possession of programmable calculator, mobile phones, written matter on chits, calculator, palm, hand, leg or any other part of the body, hand kerchief, clothing, socks, instrument box, identity card, scales electronic gadgets etc, is strictly prohibited in the examination hall.
6. Communication with other students, exchange of question papers and answer booklets, etc, is not allowed during the examination.
7. Students are expected to maintain silence in and around the examination hall and also expected to behave politely with the University officials.
8. Compulsorily return all answer booklets, graph sheets, hand books, etc., received during the examination to the Room Supervisor before leaving the examination hall.

Wish you the best of luck.....

To be filled by Candidate (For Instructions and illustration, please refer first and second page)

PART-1

Sticker

Answer Booklet Number

AA000322



Register Number

1. Faculty: Pharmacy
2. Programme: Pharm -D
3. Semester / Year: 1st Year
4. Course Code: PDA104T
5. Course Title: Pharmaceutical Organic Chemistry
6. Name of the Student: Manya Muthamma
7. Registration No.: 21PHPH010030
8. Date of Exam: 12 June 2023

2	1	P	H	P	H	0	1	0	0	3	0
0	0	A	A	A	A	0	0	0	0	0	0
1	0	B	B	B	B	1	1	1	1	1	1
2	0	C	C	C	C	2	2	2	2	2	2
3	3	D	D	D	D	3	3	3	3	3	3
4	4	E	E	E	E	4	4	4	4	4	4
5	5	F	F	F	F	5	5	5	5	5	5
6	6	G	G	G	G	6	6	6	6	6	6
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9	9	J	J	J	J	9	9	9	9	9	9
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L	L	L	L	L	L	L	L	L	L	L	L
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N	N	N	N	N	N	N	N	N	N	N	N
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R	R	R	R	R	R	R	R	R	R	R	R
S	S	S	S	S	S	S	S	S	S	S	S
T	T	T	T	T	T	T	T	T	T	T	T
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V	V	V	V	V	V	V	V	V	V	V	V
W	W	W	W	W	W	W	W	W	W	W	W
X	X	X	X	X	X	X	X	X	X	X	X
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z

I have read these instructions and shall abide by them

Candidate Name

Manya M.K.B

Candidate Signature



Invigilator Signature



Example

PART-1

Sticker

Answer Booklet Number

AA000001



Register Number

2	2	A	B	C	D	9	9	5	6	3	2
0	0	●	A	A	A	0	0	0	0	0	0
1	1	B	●	B	B	1	1	1	1	1	1
●	●	C	C	●	C	2	2	2	2	2	●
3	3	D	D	D	●	3	3	3	3	●	3
4	4	E	E	E	E	4	4	4	4	4	4
5	5	F	F	F	F	5	5	●	5	5	5
6	6	G	G	G	G	6	6	6	●	6	6
7	7	H	H	H	H	7	7	7	7	7	7
8	8	I	I	I	I	8	8	8	8	8	8
9	9	J	J	J	J	●	●	9	9	9	9

K K K K

L L L L

M M M M

N N N N

O O O O

P P P P

Q Q Q Q

R R R R

S S S S

T T T T

U U U U

V V V V

W W W W

X X X X

Y Y Y Y

Z Z Z Z



- Faculty: **FET**
- Programme: **B.Tech in CSE**
- Semester / Year: **First Semester**
- Course Code: **19MIC505A**
- Course Title: **Pattern Recognition**
- Name of the Student: **RAMACHANDRA K**
- Registration No.: **22ABCD995632**
- Date of Exam: **05 - 11 - 2021**

I have read these instructions and shall abide by them

Candidate Name

Manya M. K. B

Candidate Signature

Manya

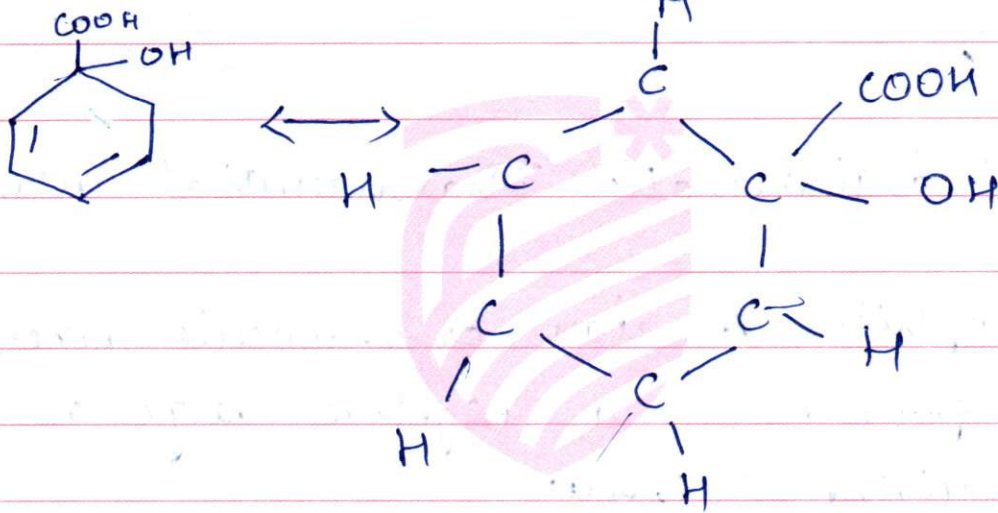
Invigilator Signature



- 1) Electrophiles: Molecules where one of the species gains a electron from the other ~~to~~ by which the charge created is positive.

Ex: HNO_3 , H_2O_2 .

- 2) Resonance structure of aniline



- 3) Saytzeff Rule: States that when compound is subjected to a reaction, then the corresponding reagent attacking on ~~the~~ ~~it~~ it experiences a mesomeric ~~effe~~ effect.

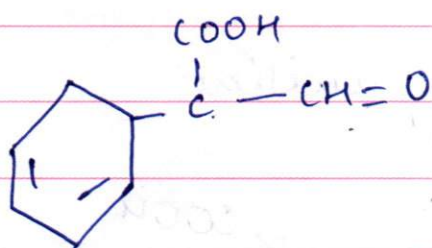
- 4) meta-directors are:

→ Benzene.
→ aldehydes.



- 6) formation of an amide from aniline which results with azo salt which results in the formation of deep red precipitate or a azo-dye.

7)



Uses: Antishematic, Pharmaceutical a.i.d

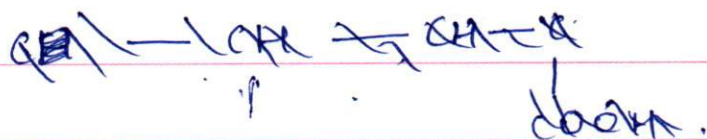
- 8) Nucleophile: A atom or molecule where which ~~poss~~ possesses a negative charge on the receiving of ~~the~~

Eg: H_2O , I^-

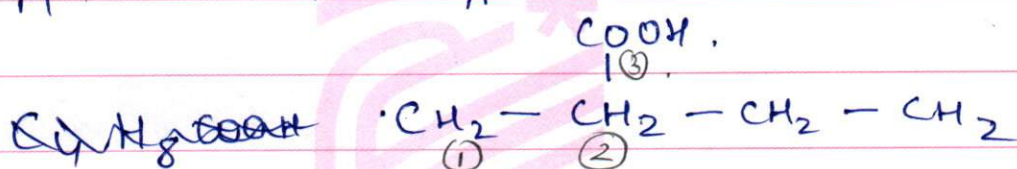
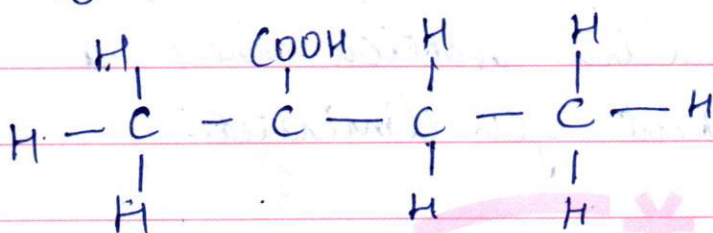
- 9) Kolbe Reaction:



10) 2-butanol



~~CH₃COOH~~



ii) Hexanoic acid.

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II

14) Aldol condensation :



III

14) E_2 Mechanism

This mechanism is bimolecular reaction. follows second order kinetics.

This is a elimination reaction where a type of ~~the~~ reactant gets eliminated.



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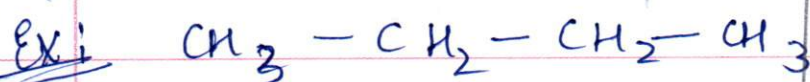
17) Structural Isomerism: are molecules having same formula but different structures.

Chain Isomerism

1) Molecules of this isomers where the compounds ~~branched~~ are arranged in a ^{linear} branched form.

→ These have non-repeating compounds or formula.

→ Angle between each of the branches is equally distributed

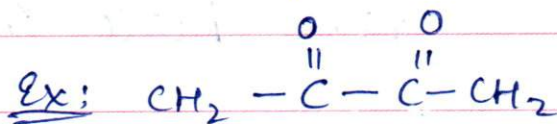


Geometrical Isomerism

→ molecules of this isomers have similar structure or ~~so~~ symmetrically they ~~are~~ have same branched formulas

→ These are repeating but at alternative phases.

→ Angle between the molecular branches are parallelly distributed equally.





18) Orientation of chloro group

Orientation: ~~po~~ ortho-para director.

→ The key reactant is the chlorine atom which is a alkyl halide.

→



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19) S_N2 mechanisms

This mechanism is a bimolecular reaction takes place in one step reaction.

Kinetics

This reaction follows second order kinetics that means the reaction is dependent on both concentration of substrate and



on concentration of ~~reactant~~ product.

~~Rate of Reaction~~

~~Rate of Reaction~~

Reaction \propto [conc of substrate] [product conc]

Reaction \propto [RBr] [H]

Reaction = k [RBr] [H]

where k is rate constant

Mechanism

One step process where the product form is tertiary butyl halide. which undergoes transition state in presence of halide ion.

CH₃ —



21) Method of Preparation: Chlorobutol is prepared from the reaction of ~~an~~ alcohol and chlorine. On which a alcohol reacts with chlorine to form chlorobutol.

Assay: Back titration method.

The required amount of sample is mixed with a alcohol and is titrated against 0.1N of NaOH.

Uses: Pharmaceutical Aid.

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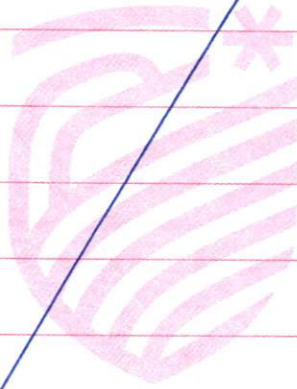
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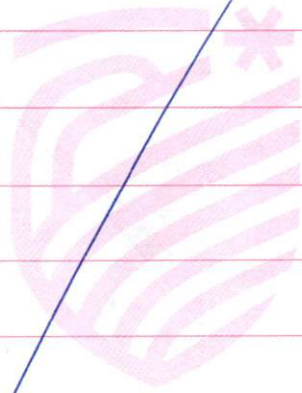




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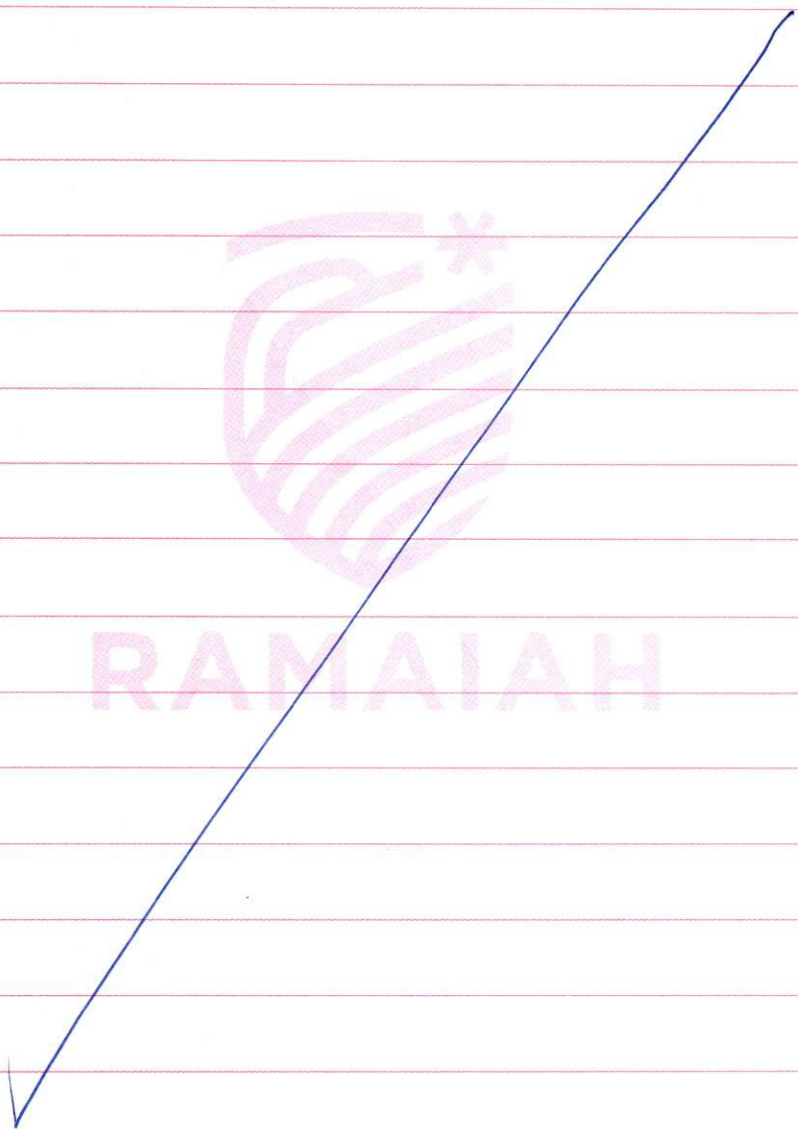
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~~ROUGH WORK~~