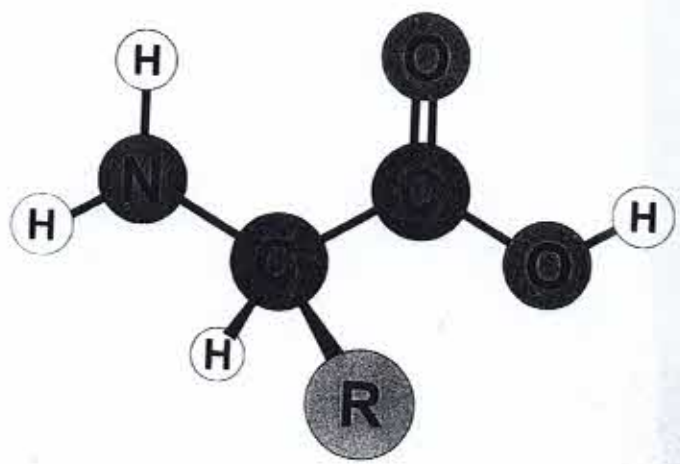
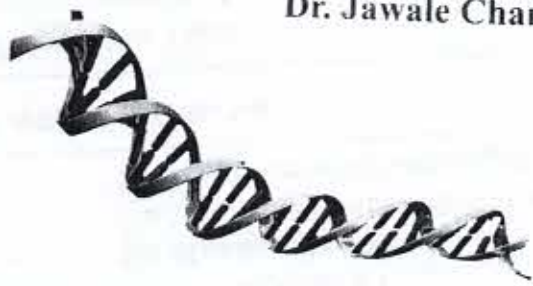


2021-22

A Text Book Of BIOCHEMISTRY

B.Sc. Second Year,
Semester-III
Paper No. - VII

Dr. Munde Ashok Sayasrao
Dr. More Purushottam Rambhau
Dr. Jawale Chandrakant Angad



Aruna Prakashan

Jawale
PRINCIPAL

Kai. Rasika Mahavidyalaya, Deoni
Tq. Deoni Dist. Latur



Chitambar

IQAC-COORDINATOR
Kai. Rasika Mahavidyalaya, Deoni
Tq. Deoni Dist. Latur



A Text Book Of BIOCHEMISTRY

**Author - Dr. Munde Ashok Sayasrao
Dr. More Purushottam Rambhau
Dr. Jawale Chandrakant Angad**

ISBN -978-81-951586-7-6

**Aruna Prakashan, Latur
103, Omkar Complex - A,
Ausa Road, Latur. Mo. 9421486935**

Copyright © Authors 2021

First Editon : June 2021

Offset : Arty Offest, Latur

Front Page Design : Viru Gulve

Prize : Rs. 140/-

Note : All rights reserved. No part of this publication may be reproduced, distributed, transmitted in any form or by any means, including photocopying, recording, or electronic or mechanical methods, without the written permission of the publisher or the Author.



Jawale

PRINCIPAL

**Kai. Rasika Mahavidyalaya, Deoni
Tq. Deoni Dist. Latur**

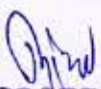


Deoni

**IQAC-COORDINATOR
Kai. Rasika Mahavidyalaya, Deoni
Tq. Deoni Dist. Latur**

CONTENTS

1. Biomolecules	.....	05
1.1 Classification, Structure and Properties of Carbohydrates.		
1.2 Classification, Structure and Properties of Proteins.		
1.3 Classification, Structure and Properties of Lipids.		
2. Enzymes	.....	67
2.1 Nomenclature		
2.2 Classification		
2.3 Mechanism of Enzyme Action		
2.4 Factors affecting Enzyme Activity- Temperature, pH, Concentration of Enzyme, Concentration of Substrate.		
2.5 pH of water		
2.6 Colligative properties of Solution		
3. Carbohydrate Metabolism	.....	85
3.1 Glycolysis (EMP Pathway)		
3.2 Glycogenesis,		
3.3 Glycogenolysis		
3.4 Glyconeogenesis		
3.5 Citric Acid Cycle (Krebs Cycle)		
3.6 Pentose Phosphate Pathway (HMP shunt).		
4. Lipid metabolism	.....	101
4.1 The β -Oxidation (Beta Oxidation) Pathway		
4.2 Ketogenesis		
4.3 Ketosis		
4.4 Ketolysis.		
5. Protein metabolism	.....	110
5.1 Transamination,		
5.2 Deamination and decarboxylation reactions of amino acids.		
5.3 Disposal of nitrogenous waste.		
5.4 Krebs-Henseleit Urea Cycle (Ornithine cycle).		


IQAC-COORDINATOR
Kai.Rasika Mahavidyalaya, Deoni
Tq.Deoni Dist.Latur




PRINCIPAL
Kai.Rasika Mahavidyalaya, Deoni
Tq. Deoni Dist. Latur