

A TEXT BOOK OF HUMAN ANATOMY AND PHYSIOLOGY FOR D.PHARM.

Mr. Dhiraj Kumar

Assistant Professor, Dept. of Pharmacy
IIMT College of Pharmacy, G.Noida, UP, India.

Ms. Preeti Rani

Scholar, Dept. of Pharmacy
IIMT College of Pharmacy, G.Noida, UP, India.

Mrs. Sapna Tripathi

Associate Professor, Dept. of Pharmacy
IIMT College of Pharmacy, G.Noida, UP, India.

A TEXT BOOK OF HUMAN ANATOMY AND PHYSIOLOGY FOR D.PHARM.

Copyright © : Mr. Dhiraj Kumar
Publishing Right © : VSRD Academic Publishing
A Division of Visual Soft India Private Limited

ISBN-13: 978-93-91462-39-0
FIRST EDITION, SEPTEMBER 2022, INDIA

Printed & Published by:
VSRD Academic Publishing
A Division of Visual Soft India Private Limited

Disclaimer: The author(s) are solely responsible for the contents compiled in this book. The publishers or its staff do not take any responsibility for the same in any manner. Errors, if any, are purely unintentional and readers are requested to communicate such errors to the Authors or Publishers to avoid discrepancies in future.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the Publishers & Author.

Printed & Bound in India

VSRD ACADEMIC PUBLISHING

A Division of Visual Soft (India) Pvt. Ltd.

REGISTERED OFFICE

154, Tezabmill Campus, Anwarganj, KANPUR – 208 003 (UP) (INDIA)
Mob.: +91 9899936803 || Web.: www.vsrdpublishing.com || Email: vsrdpublishing@gmail.com

MARKETING OFFICE

340, First Floor, Adarsh Nagar, Oshiwara, Andheri(W), MUMBAI–400053 (MH) (INDIA)
Mob.: +91 9956127040 || Web.: www.vsrdpublishing.com || Email: vsrdpublishing@gmail.com

PREFACE

It is our immense pleasure to bring out the “First Edition” of this book which is dedicated to the students and faculty of B. Pharma institutes of this country. This book is designed and edited in accordance to the syllabus requirement of Human Anatomy and Physiology of first year D. Pharma course in pharmacy prescribed in “Diploma in pharmacy” course regulation by 2020 by Pharmacy council of India.

Care has been taken in the preparation of this book to fall in line with the syllabus prescribed by the Pharmacy council of India, New Delhi. The subject has been dealt with clarity, simple language and lucid explanation with neat diagrammatic sketches.

We are sure, this book will benefit the students pursuing Diploma in pharmacy course as well as faculty members of the Pharmacy institutions to a great extent. To achieve this, details of theory syllabi are also given. Suggestions for improvement in the book are welcome so as to make amendments in subsequent reprint/edition.

We are sure, that this book will be welcomed by all, and get full support.

 *Authors*

ACKNOWLEDGEMENT

The completion of this book could not have been possible without the participation and assistance of my respected teachers (guide) and my family members whose names may not all be enumerated. Their contribution is sincerely appreciated and gratefully acknowledged. However, the members would like to express their deep appreciation and indebtedness particularly to the following:

Mr. Dhiraj Kumar, Assistant Professor for their endless support, guidance, motivation, kind and understanding spirit during the preparation of this book.

I also thanks to Mrs. Sapna Tripathi for his regular motivation.

I also thanks to my parents and my siblings from the bottom of my heart who all are in one way or another shared their support either morally, financially and physically.

Above all, to the Great Almighty, the author of knowledge and wisdom, for their countless love.

Thank you

✍ Preeti Rani

C O N T E N T S

CHAPTER 1: INTRODUCTION WITH CELL: THE UNIT OF LIFE.....	1
CHAPTER 2: ELEMENTARY TISSUES	13
CHAPTER 3: OSSEOUS SYSTEM.....	25
CHAPTER 4: HAEMOPOIETIC SYSTEM.....	39
CHAPTER 5: LYMPHATIC SYSTEM	44
CHAPTER 6: CARDIOVASCULAR SYSTEM.....	49
CHAPTER 7: RESPIRATORY SYSTEM.....	56
CHAPTER 8: DIGESTIVE SYSTEM.....	66
CHAPTER 9: MUSCULAR SYSTEM	74
CHAPTER 10: CENTRAL NERVOUS SYSTEM	83
CHAPTER 11: SENSORY ORGANS.....	97
CHAPTER 12: URINARY SYSTEM	110
CHAPTER 13: ENDOCRINE SYSTEM.....	121
CHAPTER 14: THE REPRODUCTIVE SYSTEM.....	127

