



**THE UNIVERSITY OF ZAMBIA SCHOOL OF NATURAL AND APPLIED SCIENCES  
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**TO: All Students under School of Natural and Applied Sciences (NAS)**

**SUBJECT: Payment and Collection of Lab Manuals and Report Books**

**DATE: 26th February, 2025.**

**Dear Students,**

This is to inform you that payments for lab manuals and report books for lab-based courses in Chemistry (CHE1000/1010), Physics (PHY1010/1015) and Biology (BIO 1400) are now open.

**Payment Details:**

- Each lab-based course: ZMW 130.00
- Total for all three courses: ZMW 390.00

**Payment Method:**

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**Collection of Lab Manuals and Report Books:**

Collection will commence on Monday, prioritizing students with labs scheduled for that day. Labs are scheduled to start on Monday, March 3rd, 2024.

Please make payments and collect your lab manuals and report books on time to avoid any inconvenience.

**Note:** This ZMW 130.00 covers for both a lab manual and lab report book.

For further information, please contact the Publicity Secretary, UNZANASA on 0963974682

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# Polytechnic First Year Lab Manuals

**University of Michigan**

The logo of the University of Michigan, featuring a red and white circular emblem with a stylized 'U' and 'M'.

## **Polytechnic First Year Lab Manuals:**

**Masterly's Series LAB MANUAL OF PHARMACEUTICS-I For Diploma Pharmacy First Year as Per GTU & PCI SYLLABUS** Mr. Harshrajsinh Rana Ms. Revati Mudaliar, Ms. Shubhangee Tomar Mr. Harsh Chunara, 2020-01-01 Masterly's Series LAB MANUAL OF PHARMACEUTICS I For Diploma Pharmacy First Year as Per GTU PCI SYLLABUS *Laboratory Manual in Engineering Chemistry : For the Students of JNTU Hyderabad* Dr. B. Rama Devi & Dr. P. Aparna, The book is written to gain the basic knowledge on the principles of chemistry required for practical applications in engineering concepts This book consists organic and general chemistry experiments for chemical engineering for 1st and 2nd semester students The book also explains the precautions and safety rules for avoiding the accidents in chemistry laboratory It covers Estimation of Ferrous iron by Dichrometry and Permanganometry Method Estimation of Acetic Acid by Conductometric Titrations Estimation of the Amount of Fe<sup>2+</sup> by Potentiometry Determination of an Acid Concentration using pH Meter Preparation of Nylon 6 and Bakelite Phenol Formaldehyde Resin Estimation of Acid Value of Given Lubricant Oil Determination of Rate of Corrosion of Mild Steel Preparation of Benzanilide from Benzophenone via the Oxime by Beckmann Rearrangement etc **Laboratory Manual of Pharmacotherapeutics** Dr. Remeth J. Dias, Dr. Kuldeep U. Bansod, Dr. Prashant D. Aragade, Mr. Sushant Sudhir Pande, 2023-09-29 We are very pleased to put forth the revised edition of Laboratory Manual of Pharmacotherapeutics We have incorporated all the suggestions modified it to make it easier student friendly and relevant in terms of achieving curriculum outcome We are very much thankful to all the learned teachers who have given their feedback whole heartedly We have even incorporated the changes in this manual based on the feedback given by the teachers from all the institutes Now we believe that the manual has been fulfilling the aspirations of Pharmacotherapeutics teachers and students too This manual is prepared as per PCI Education Regulations 2020 for Diploma Course in Pharmacy The methods of all the experiments are reviewed and added from the recent research papers so that the advancement in the methods or apparatus can be addressed This manual is designed for outcome based education and each experiment is arranged in a uniform way such as practical significance practical outcomes PrOs and its mapping with course outcomes minimum theoretical background resources used procedure precautions observations result conclusion references and related questions Moreover assessment scheme is also given to help the student and teacher to know what to be assessed Every experiment has the component of the activity or role play included so that the students will be able to interact with patients and give them counselling tips on the proper care to be taken in chronic diseases In addition the questions are given at the end of experiments to increase the knowledge of students which would be helpful for them when they will go for higher studies Hope this manual will help the students to learn the concept principles and perform activities and role play counselling the public about diseases and medication We wish you all the best **Laboratory Manual in Chemistry** G. Venkatanarayana, 2012 **Laboratory Manual of Hospital & Clinical Pharmacy** Dr. Remeth J. Dias, Dr.

Kuldeep U. Bansod, Dr. Vishwajeet S. Ghorpad, Mr. Vijay D. Havaladar, 2023-09-29 We are very pleased to put forth the revised edition of Laboratory Manual of Hospital Clinical Pharmacy We have incorporated all the suggestions modified it to make it easier student friendly and relevant in terms of achieving curriculum outcome We are very much thankful to all the learned teachers who have given their feedback whole heartedly We have even incorporated the changes in this manual based on the feedback given by the teachers from all the institutes Now we believe that the manual has been fulfilling the aspirations of Pharmacotherapeutics teachers and students too This manual is prepared as per PCI Education Regulations 2020 for Diploma Course in Pharmacy The methods of all the experiments are reviewed and added from the recent research papers so that the advancement in the methods or apparatus can be addressed This manual is designed for outcome based education and each experiment is arranged in a uniform way such as practical significance practical outcomes PrOs and its mapping with course outcomes minimum theoretical background resources used procedure precautions observations result conclusion references and related questions Moreover assessment scheme is also given to help the student and teacher to know what to be assessed Every experiment has the component of the activity or role play included so that the students will be able to interact with patients and give them counselling tips on the proper care to be taken in chronic diseases In addition the questions are given at the end of experiments to increase the knowledge of students which would be helpful for them when they will go for higher studies Hope this manual will help the students to learn the concept principles and perform activities and role play counselling the public about diseases and medication We wish you all the best Laboratory Manual of Social Pharmacy

Dr. Remeth J. Dias, Dr. Kuldeep U. Bansod, Dr. Prashant D. Aragade, Dr. Vishwajeet S. Ghorpade, 2023-09-28 We are pleased to put forth the revised edition of Laboratory Manual of Social Pharmacy This manual is prepared as per the PCI Education Regulations 2020 for Diploma in Pharmacy This laboratory manual is intended to give broad knowledge of social pharmacy and the role of pharmacists in various health care services The practicals included are the services provided by the government or private health care industries that are not known to the common public This manual will create emphasis on that and make students think of it search it brainstorm it and use this information to counsel the community In addition some of the experiments are on health and hygiene that help to prevent the various communicable diseases and maintain personal hygiene Moreover the role of pharmacist in various scenes is identified and communicated to the students so the students are aware of it and demonstrate these skills to the society when necessary We have incorporated all the suggestions modified it to make it easier student friendly and relevant in terms of achieving curriculum outcome We are very much thankful to all the learned teachers who have given their feedback whole heartedly This manual is designed for outcome based education and each experiment is arranged in a uniform way such as practical significance practical outcomes PrOs and its mapping with course outcomes minimum theoretical background resources used procedure precautions observations result conclusion references and related questions Moreover assessment scheme is also given to help the student and teacher to know what to



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