

Balancing Chemical Equations – Answer Key

Balance the equations below:

- 1) $1 \text{ N}_2 + 3 \text{ H}_2 \rightarrow 2 \text{ NH}_3$
- 2) $2 \text{ KClO}_3 \rightarrow 2 \text{ KCl} + 3 \text{ O}_2$
- 3) $2 \text{ NaCl} + 1 \text{ F}_2 \rightarrow 2 \text{ NaF} + 1 \text{ Cl}_2$
- 4) $2 \text{ H}_2 + 1 \text{ O}_2 \rightarrow 2 \text{ H}_2\text{O}$
- 5) $1 \text{ Pb(OH)}_2 + 2 \text{ HCl} \rightarrow 2 \text{ H}_2\text{O} + 1 \text{ PbCl}_2$
- 6) $2 \text{ AlBr}_3 + 3 \text{ K}_2\text{SO}_4 \rightarrow 6 \text{ KBr} + 1 \text{ Al}_2(\text{SO}_4)_3$
- 7) $1 \text{ CH}_4 + 2 \text{ O}_2 \rightarrow 1 \text{ CO}_2 + 2 \text{ H}_2\text{O}$
- 8) $1 \text{ C}_3\text{H}_8 + 5 \text{ O}_2 \rightarrow 3 \text{ CO}_2 + 4 \text{ H}_2\text{O}$
- 9) $2 \text{ C}_6\text{H}_{16} + 25 \text{ O}_2 \rightarrow 16 \text{ CO}_2 + 18 \text{ H}_2\text{O}$
- 10) $1 \text{ FeCl}_3 + 3 \text{ NaOH} \rightarrow 1 \text{ Fe(OH)}_3 + 3 \text{ NaCl}$
- 11) $4 \text{ P} + 5 \text{ O}_2 \rightarrow 2 \text{ P}_2\text{O}_5$
- 12) $2 \text{ Na} + 2 \text{ H}_2\text{O} \rightarrow 2 \text{ NaOH} + 1 \text{ H}_2$
- 13) $2 \text{ Ag}_2\text{O} \rightarrow 4 \text{ Ag} + 1 \text{ O}_2$
- 14) $1 \text{ S}_8 + 12 \text{ O}_2 \rightarrow 8 \text{ SO}_3$
- 15) $6 \text{ CO}_2 + 6 \text{ H}_2\text{O} \rightarrow 1 \text{ C}_6\text{H}_{12}\text{O}_6 + 6 \text{ O}_2$
- 16) $1 \text{ K} + 1 \text{ MgBr} \rightarrow 1 \text{ KBr} + 1 \text{ Mg}$
- 17) $2 \text{ HCl} + 1 \text{ CaCO}_3 \rightarrow 1 \text{ CaCl}_2 + 1 \text{ H}_2\text{O} + 1 \text{ CO}_2$
- 18) $1 \text{ HNO}_3 + 1 \text{ NaHCO}_3 \rightarrow 1 \text{ NaNO}_3 + 1 \text{ H}_2\text{O} + 1 \text{ CO}_2$
- 19) $2 \text{ H}_2\text{O} + 1 \text{ O}_2 \rightarrow 2 \text{ H}_2\text{O}_2$
- 20) $2 \text{ NaBr} + 1 \text{ CaF}_2 \rightarrow 2 \text{ NaF} + 1 \text{ CaBr}_2$
- 21) $1 \text{ H}_2\text{SO}_4 + 2 \text{ NaNO}_2 \rightarrow 2 \text{ HNO}_2 + 1 \text{ Na}_2\text{SO}_4$

Answer Key For 12 Sem 3 Chemistry

Marvin James Van Wagenen

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TEXT BOOK OF MEDICINAL

CHEMISTRY-III Dr. Satkar Prasad, Dr. Ganesh S Andhale, Ashok A. Chopane, Dr. Preeti Bhadauria, Dr. Prateek Porwal,2025-08-22 The Text Book of Medicinal Chemistry III is a comprehensive guide designed to equip students with a deep understanding of modern chemotherapeutic agents their chemical structures and their relationships with pharmacological activity It begins by thoroughly exploring antibiotics detailing the historical development nomenclature stereochemistry and structure activity relationships SAR of vital classes such as lactams penicillins cephalosporins aminoglycosides tetracyclines macrolides and miscellaneous agents like chloramphenicol and clindamycin The book provides valuable insights into chemical degradation and classification enabling students to grasp the rationale behind drug design and modification It also emphasizes the prodrug concept and its role in enhancing bioavailability and reducing toxicity The textbook moves on to antimalarial drugs covering the etiology of malaria and the SAR of quinoline derivatives such as chloroquine quinine and primaquine In depth discussions on biguanides dihydrotriazines and newer antimalarials like artemether and atovaquone are included The third chapter focuses on anti tubercular agents including both synthetic and antibiotic categories addressing emerging drug resistance issues It also covers urinary tract anti infectives especially fluoroquinolones and their evolution through SAR studies Antiviral agents form another significant section with detailed coverage of nucleoside analogs protease inhibitors and other antiviral categories that target various stages of viral replication This is followed by antifungal agents encompassing both natural antibiotics and synthetic drugs used to treat systemic and topical fungal infections The section on anti protozoal agents includes drugs used for amoebiasis leishmaniasis and trypanosomiasis while the anthelmintic chapter addresses helminthic infections using agents like albendazole and ivermectin The book also dives into sulfonamides and sulfones exploring their chemistry historical development SAR and therapeutic applications along with folate reductase inhibitors like trimethoprim Importantly the book culminates with chapters on drug design principles introducing quantitative structure activity relationships QSAR physicochemical

parameters pharmacophore modeling and molecular docking techniques Finally combinatorial chemistry is introduced to highlight high throughput synthesis methods essential in modern drug discovery Overall this book serves as a vital academic and reference resource for pharmacy and medicinal chemistry students bridging foundational knowledge with contemporary drug development approaches

TEXT BOOK OF PHARMACEUTICAL ORGANIC CHEMISTRY-III Mrs. Pradnya A. Bhosle (Kshirsagar),2025-04-21 This Textbook of Pharmaceutical Organic Chemistry III is a comprehensive resource designed for students and professionals in the field of pharmaceutical sciences It covers the fundamental principles of stereochemistry including optical geometrical and conformational isomerism which are crucial in drug design and medicinal chemistry The book provides an in depth study of chirality racemic modifications and resolution techniques ensuring a strong conceptual foundation in stereochemistry A major focus is given to heterocyclic chemistry detailing the synthesis reactivity and medicinal applications of important heterocyclic compounds such as pyrrole furan thiophene pyrazole imidazole oxazole thiazole pyridine quinoline acridine indole pyrimidine purine and azepines Their relevance in pharmaceutical applications is extensively discussed Additionally the book explores stereospecific and stereoselective reactions crucial in pharmaceutical synthesis and emphasizes their role in the development of bioactive molecules It also delves into important organic reactions of synthetic significance such as metal hydride reductions Clemmensen reduction Birch reduction Wolff Kishner reduction Oppenauer oxidation Dakin reaction and various rearrangements With a structured and student friendly approach this book serves as an essential guide for understanding reaction mechanisms synthesis strategies and the chemical behavior of pharmaceutical compounds It is a valuable resource for pharmacy students researchers and professionals involved in organic synthesis and drug development

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Marvin James Van Wagenen,1928 **Resources in Education** ,1989 *The Relative Instructional Values of Four Methods of Correcting Objective Tests in High School Chemistry* Vernon Cecil Lingren,1934 **TEXT BOOK OF PHARMACOGNOSY AND PHYTOCHEMISTRY- II** Dr. M. Rajan, Mr. Anil Kumar, Dr. Rekha Tarasingh Rajput, Mr. Vikram Patel, Dr. Pritam Rajkumar Siraskar,2025-11-22 The Text Book of Pharmacognosy and Phytochemistry II is an essential resource for

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