

Name _____ Period _____

Chapter 4: Carbon and the Molecular Diversity of Life

Concept 4.1 Organic chemistry is the study of carbon compounds

- Study this figure of Stanley Miller's experiment to simulate conditions thought to have existed on the early Earth. Explain the elements of this experiment, using arrows to indicate what occurs in various parts of the apparatus.



- What was collected in the sample for chemical analysis? What was concluded from the results of this experiment? *There were a variety of organic molecules that are common in organisms (hydrocarbons, amino acids, CH_2O , CH_4 and a more) concluded that organic molecules may have been synthesized abiotically on the Earth*

Concept 4.2 Carbon atoms can form diverse molecules by bonding to four other atoms

- Make an electron distribution diagram of carbon. It is essential that you know the answers to these questions:

- How many valence electrons does carbon have? *4!!!*
- How many bonds can carbon form? *4!!! up to 4*
- What type of bonds does it form with other elements?

covalent bonds

- Carbon chains form skeletons. List here the types of skeletons that can be formed.

- length*
- presence of rings*
- branching*
- double bond position*

- What is a hydrocarbon? Name two. Are hydrocarbons hydrophobic or hydrophilic?

An organic molecule consisting only of carbon & Hydroge
Hydrophobic

Bio Guide Answers 34

Heinrich Eberhard Just



Bio Guide Answers 34:

CCEA A2 Unit 1 Biology Student Guide: Physiology, Co-ordination and Control, and Ecosystems John

Campton,2017-04-28 Exam Board CCEA Level A level Subject Biology First Teaching September 2016 First Exam June 2018 Reinforce students understanding throughout their course clear topic summaries with sample questions and answers will improve exam technique to achieve higher grades Written by examiners and teachers Student Guides Help students identify what they need to know with a concise summary of the topics examined in the AS and A level specification Consolidate understanding with exam tips and knowledge check questions Provide opportunities to improve exam technique with sample graded answers to exam style questions Develop independent learning and research skills Provide the content for generating individual revision notes *(Free Sample) GO TO Objective NEET Biology Guide with DPP & CPP Sheets 9th Edition Disha*

Experts,2021-10-07 The thoroughly revised updated 9th Edition of Go To Objective NEET Biology is developed on the objective pattern following the chapter plan as per the NCERT books of class 11 and 12 The book has been rebranded as GO TO keeping the spirit with which this edition has been designed The complete book has contains 38 Chapters In the new structure the book is completely revamped with every chapter divided into 2 4 Topics Each Topic contains Study Notes along with a DPP Daily Practice Problem of 15 20 MCQs This is followed by a Revision Concept Map at the end of each chapter The theory is followed by a set of 2 Exercises for practice The first exercise is based on Concepts Application It also covers NCERT based questions This is followed by Exemplar past 8 year NEET 2013 2021 questions In the end of the chapter a CPP Chapter Practice Problem Sheet of 45 Quality MCQs is provided The solutions to all the questions have been provided immediately at the end of each chapter *AP Biology Study Guide Sundar Nathan,2009-11 Sundar Nathan received a*

Bachelor s degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test *GO TO Objective NEET 2021 Biology Guide 8th Edition Disha Experts, OCR A2*

Biology Student Unit Guide: Unit F214 Communication, Homeostasis and Energy Richard Fosbery,2012-08-10

Written by a senior examiner Richard Fosbery this OCR A2 Psychology Student Unit Guide is the essential study companion for Unit F214 Communication Homeostasis and Energy This full colour book includes all you need to know to prepare for your unit exam clear guidance on the content of the unit with topic summaries knowledge check questions and a quick reference index examiner s advice throughout so you will know what to expect in the exam and will be able to demonstrate the skills required exam style questions with graded student responses so you can see clearly what is required to get a better grade *Student Study Guide and Solutions Manual to accompany General Organic and Biological Chemistry, 1e Kenneth W. Raymond,2005-10-07 Finally readers have a shorter less intimidating introduction to general organic and biological*

chemistry Not only is Raymond's text concise it also takes an integrated approach to presenting important topics in a way that makes the material easier to understand In this approach similarities can be exploited and concepts reinforced The result is that readers see the strong connections that exist between these three branches of chemistry

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Biology, 1987

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